Astronomisches Jahrbuch

für

1912.

Der Sammlung Berliner astronomischer Jahrbücher
einhundert und siebenunddreißigster Band.

Berliner

Astronomisches Jahrbuch

für

1 9 1 2

mit Angaben für die Oppositionen
der Planeten (1)—(674)

für

1910.

Herausgegeben
von dem

Königlichen Astronomischen Recheninstitut

unter Leitung von

Fritz Cohn.



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1910.



Königliches Astronomisches Recheninstitut zur Herausgabe des Berliner Jahrbuchs in Berlin SW. 68, Lindenstr. 91.

Direktor:	Dr. Fritz Cohn, Universitätsprofessor.
Observatoren:	P. Lehmann, Professor,
	F. K. Ginzel, Professor,
	A. Berberich, Professor,
	Dr. J. Peters,
	Dr. J. Riem,
	Dr. A. Stichtenoth.
Hülfsarbeiter:	Dr. H. Clemens,
	Dr. P. V. Neugebauer.
Mitarbeiter:	Dr. P. Neugebauer, Professor.

Inhalt.

Berichtigungen.

Jahrbuch 1912.

In dem Jahrbuch für 1912 sind folgende Anmerkungen nachzutragen:

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[1]) Ort des Schwerpunkts. Die Reduktion auf den Hauptstern ist (Peters, Neuer Fundamental-Katalog, Seite 98):

1912.0	$\Delta\alpha = -0^s.218$	$\Delta\delta = -0''.38$
1913.0	$-0\ .223$	$-0\ .52$

Seite 157

[1]) AR. der Mitte, Dekl. des folgenden, helleren Sterns.

[2]) Ort des Schwerpunkts. Die Reduktion auf den Ort des hellen Sterns beträgt (Peters, Neuer Fundamental-Katalog, Seite 98):

1912.0	$\Delta\alpha = -0^s.042$	$\Delta\delta = -0''.66$
1913.0	$-0\ .048$	$-0\ .57$

Vorwort.

Nach den Beschlüssen der Pariser Konferenz vom Mai 1896 (*Conférence internationale des étoiles fondamentales. Procès-Verbaux. Paris 1896*) sind im Jahrbuch vom Jahrgang 1901 an durchweg eingeführt:

die Präzessions-Gröfsen nach S. Newcomb (*Astr. Papers Vol. VIII. Part I*),

die Nutations-Konstante 9".21,

die Aberrations-Konstante 20".47,

die Sonnen-Parallaxe 8".80;

ferner sind in allen Ephemeriden der Sonne, der Planeten und der Fixsterne die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; ausgenommen von dieser allgemeinen Regel sind nur die Ephemeriden der Polsterne, die von Tag zu Tag fortschreiten; in diesen ist wohl das allen Sternen gemeinsame Nutationsglied $f' = -0''.1865 \sin 2☾ + 0''.0618 \sin (☾ - \Gamma')$ weggelassen, die übrigen mit der Tangente der Dekl. multiplizierten Glieder sind jedoch beibehalten. Das Jahrbuch gibt übrigens die Mittel an die Hand, die weggelassenen Glieder nachträglich anzubringen, worüber die »Erläuterungen« einzusehen sind.

Die mittleren Örter der 925 Sterne des neuen Auwersschen Fundamentkalataloges sind nach der Bearbeitung desselben von Dr. J. Peters (Veröffentlichungen des K. Astronomischen Recheninstituts Nr. 33) berechnet worden.

Ausführliche Ephemeriden der scheinbaren Örter werden für 573 Sterne geboten, darunter 18 von Tag zu Tag fortschreitende der eigentlichen Polsterne.

Den angegebenen Eigenbewegungen liegt die Newcombsche Präzessions-Konstante zu Grunde.

Für die Planeten sind folgende Tafeln benutzt worden:

Sonne: Tafeln von Newcomb,
Merkur: Tafeln von Newcomb,
Venus: Tafeln von Newcomb,
Mars: Tafeln von Newcomb,
Jupiter: Tafeln von Hill,
Saturn: Tafeln von Hill,
Uranus: Tafeln von Newcomb,
Neptun: Tafeln von Newcomb.

Die Schiefe der Ekliptik ist nach Newcomb angenommen.

Für den Halbmesser der Sonne ist die bisherige Konstante nach Auwers (15′ 59″.63) beibehalten, für den Halbmesser des Mondes ist sowohl in der Ephemeride (S. 42—81) als bei der Berechnung der Finsternisse und Sternbedeckungen der von J. Peters ermittelte Wert 15′ 32″.59, entsprechend der Parallaxe 57′ 2″.27, benutzt (A. N. Nr. 3297).

Die Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (Selenographische Koordinaten) angenommen.

Als Vergröfserungsfaktor für den Erdschatten bei Mondfinsternissen ist nach J. Hartmann $\frac{1}{50}$ angenommen worden.

Zeit- und Festrechnung 1912.

Das Jahr 1912 entspricht dem
Jahr 6625 der Julianischen Periode und dem
Jahr 7420 — 7421 der Byzantinischen Äre.

	Gregorianischer oder Neuer Kalender.	Julianischer oder Alter Kalender.
Goldene Zahl	13	13
Epakten	XI	XXIII
Sonnenzirkel	17	17
Römer Zinszahl	10	10
Sonntagsbuchstab	GF	AG
Septuagesima	Febr. 4	Jan. 22
Aschermittwoch	Febr. 21	Febr. 8
I. Quatember	Febr. 28	Febr. 15
Ostersonntag	April 7	März 25
Himmelfahrt	Mai 16	Mai 3
Pfingstsonntag	Mai 26	Mai 13
II. Quatember	Mai 29	Mai 16
III. Quatember	Sept. 18	Sept. 19
I. Advent	Dez. 1	Dez. 2
IV. Quatember	Dez. 18	Dez. 19

Kalender der Mohammedaner.

1330 (Schaltjahr)		
Safar 1	1912	Jan. 21
Rebî-el-awwel 1	»	Febr. 19
Rebî-el-accher 1	»	März 20
Dschemâdi-el-awwel 1	»	April 18
Dschemâdi-el-accher 1	»	Mai 18
Redscheb 1	»	Juni 16
Schabân 1	»	Juli 16
Ramadân 1	»	Aug. 14
Schewwâl 1	»	Sept. 13
Dsû 'l-kade 1	»	Okt. 12
Dsû 'l-hedsche 1	»	Nov. 11
1331 (Gemeinjahr)		
Moharrem 1	»	Dez. 11
Safar 1	1913	Jan. 10

Kalender der Juden.

Jahr	Monat	Tag	Fest	Jahr	Monat	Tag
5672	Schebat	1	. . . .	1912	Jan.	20
	Adar	1	. . . .	»	Febr.	19
		11	Fasten-Esther	»		29
		14	Purim	»	März	3
		15	Schuschan-Purim	»		4
	Nisan	1	. . . .	»		19
		15	Passah-Anfang*	»	April	2
		16	Zweites Fest*	»		3
		21	Siebentes Fest*	»		8
		22	Achtes Fest*	»		9
	Ijar	1	. . . .	»		18
		18	Lag-B'omer	»	Mai	5
	Sivan	1	. . . .	»		17
		6	Wochenfest*	»		22
		7	Zweites Fest*	»		23
	Thamuz	1	. . . .	»	Juni	16
		17	Fasten. Tempeleroberung	»	Juli	2
	Ab	1	. . . .	»		15
		9	Fasten. Tempelverbrennung . . .	»		23
	Elul	1	. . . .	»	Aug.	14
5673 (Überzähliges Schaltjahr)						
	Tischri	1	Neujahrsfest*	»	Sept.	12
		2	Zweites Fest*	»		13
		4	Fasten-Gedaljah	»		15
		10	Versöhnungsfest*	»		21
		15	Laubhüttenfest*	»		26
		16	Zweites Fest*	»		27
		21	Palmenfest	»	Okt.	2
		22	Versammlung oder Laubhüttenende* .	»		3
		23	Gesetzesfreude*	»		4
	Marcheschwan	1	. . . .	»		12
	Kislev	1	. . . .	»	Nov.	11
		25	Tempelweihe	»	Dez.	5
	Tebet	1	. . . .	»		11
		10	Fasten. Belagerung Jerusalems . .	»		20
	Schebat	1	. . . .	1913	Jan.	9

Die mit * bezeichneten Festtage werden streng gefeiert.

1912	Schiefe der Ekliptik mittlere	Schiefe der Ekliptik wahre	Präzession in Länge	Nutation in Länge	Aberration der Sonne	Parallaxe der Sonne
	23°					
Jan. 1	27 2.64	27 10.26	— 0.04	—7.25	20.82	8.95
11	2.62	10.38	+ 1.34	6.69	20.82	8.95
21	2.61	10.55	2.72	6.24	20.80	8.94
31	2.60	10.76	4.09	5.92	20.78	8.93
Febr. 10	2.59	10.98	5.47	5.76	20.74	8.92
20	27 2.57	27 11.18	+ 6.84	— 5.76	20.70	8.90
März 1	2.56	11.35	8.22	5.90	20.65	8.88
11	2.55	11.46	9.60	6.14	20.60	8.86
21	2.53	11.51	10.97	6.42	20.54	8.83
31	2.52	11.50	12.35	6.70	20.48	8.80
April 10	27 2.51	27 11.42	+13.72	—6.93	20.42	8.78
20	2.50	11.30	15.10	7.07	20.37	8.76
30	2.48	11.14	16.48	7.09	20.31	8.73
Mai 10	2.47	10.97	17.85	6.96	20.26	8.71
20	2.46	10.81	19.23	6.70	20.22	8.69
30	27 2.45	27 10.68	+20.61	—6.31	20.19	8.68
Juni 9	2.43	10.59	21.98	5.83	20.16	8.67
19	2.42	10.56	23.36	5.30	20.14	8.66
29	2.41	10.59	24.73	4.75	20.13	8.66
Juli 9	2.39	10.68	26.11	4.24	20.13	8.66
19	27 2.38	27 10.81	+27.48	— 3.81	20.14	8.66
29	2.37	10.98	28.86	3.49	20.16	8.67
Aug. 8	2.36	11.17	30.24	3.30	20.19	8.68
18	2.34	11.36	31.61	3.24	20.23	8.70
28	2.33	11.53	32.99	3.32	20.27	8.72
Sept. 7	27 2.32	27 11.66	+34.36	— 3.51	20.32	8.74
17	2.30	11.73	35.74	3.76	20.37	8.76
27	2.29	11.74	37.12	4.05	20.43	8.78
Okt. 7	2.28	11.68	38.49	4.31	20.49	8.81
17	2.27	11.57	39.87	4.50	20.55	8.83
27	27 2.25	27 11.41	+41.24	—4.58	20.61	8.86
Nov. 6	2.24	11.23	42.62	4.51	20.66	8.88
16	2.23	11.04	44.00	4.28	20.71	8.90
26	2.22	10.86	45.37	3.90	20.75	8.92
Dez. 6	2.20	10.73	46.75	3.39	20.78	8.93
16	27 2.19	27 10.66	+48.12	—2.79	20.80	8.94
26	2.18	10.66	49.50	2.16	20.82	8.95
36	2.16	10.72	50.88	1.56	20.82	8.95

Mittlere Schiefe der Ekliptik für 1910.0 = 23° 27′ 3″.58.

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	1	Mo	+ 3 12.19	18 42 10.93	4 25.03	—23 5 54.2	4 41.1	141.91	16 16.01
	2	Di	3 40.66	18 46 35.96	4 24.70	23 1 13.1	5 8.6	141.83	16 16.02
	3	Mi	4 8.80	18 51 0.66	4 24.35	22 56 4.5	5 36.0	141.74	16 16.02
	4	Do	4 36.60	18 55 25.01	4 23.97	22 50 28.5	6 3.2	141.64	16 16.02
	5	Fr	5 4.01	18 59 48.98	4 23.56	22 44 25.3	6 30.2	141.53	16 16.01
	6	Sa	+ 5 31.01	19 4 12.54	4 23.13	—22 37 55.1	6 57.1	141.41	16 15.99
	7	So	5 57.58	19 8 35.67	4 22.68	22 30 58.0	7 23.7	141.29	16 15.97
	8	Mo	6 23.70	19 12 58.35	4 22.20	22 23 34.3	7 50.1	141.16	16 15.94
	9	Di	6 49.34	19 17 20.55	4 21.71	22 15 44.2	8 16.4	141.03	16 15.90
	10	Mi	7 14.49	19 21 42.26	4 21.18	22 7 27.8	8 42.4	140.88	16 15.86
	11	Do	+ 7 39.12	19 26 3.44	4 20.64	—21 58 45.4	9 8.2	140.73	16 15.81
	12	Fr	8 3.20	19 30 24.08	4 20.06	21 49 37.2	9 33.6	140.57	16 15.76
	13	Sa	8 26.70	19 34 44.14	4 19.47	21 40 3.6	9 58.8	140.41	16 15.71
	14	So	8 49.61	19 39 3.61	4 18.84	21 30 4.8	10 23.9	140.24	16 15.65
	15	Mo	9 11.90	19 43 22.45	4 18.20	21 19 40.9	10 48.5	140.06	16 15.58
	16	Di	+ 9 33.54	19 47 40.65	4 17.54	—21 8 52.4	11 12.9	139.88	16 15.51
	17	Mi	9 54.52	19 51 58.19	4 16.85	20 57 39.5	11 36.9	139.69	16 15.44
	18	Do	10 14.81	19 56 15.04	4 16.14	20 46 2.6	12 0.7	139.50	16 15.36
	19	Fr	10 34.39	20 0 31.18	4 15.42	20 34 1.9	12 24.0	139.30	16 15.28
	20	Sa	10 53.25	20 4 46.60	4 14.67	20 21 37.9	12 47.1	139.10	16 15.20
	21	So	+11 11.37	20 9 1.27	4 13.92	—20 8 50.8	13 9.7	138.89	16 15.11
	22	Mo	11 28.73	20 13 15.19	4 13.14	19 55 41.1	13 32.0	138.68	16 15.02
	23	Di	11 45.31	20 17 28.33	4 12.36	19 42 9.1	13 53.9	138.47	16 14.93
	24	Mi	12 1.11	20 21 40.69	4 11.55	19 28 15.2	14 15.5	138.26	16 14.83
	25	Do	12 16.11	20 25 52.24	4 10.74	19 13 59.7	14 36.6	138.04	16 14.72
	26	Fr	+12 30.29	20 30 2.98	4 9.92	—18 59 23.1	14 57.4	137.82	16 14.62
	27	Sa	12 43.65	20 34 12.90	4 9.10	18 44 25.7	15 17.8	137.60	16 14.51
	28	So	12 56.19	20 38 22.00	4 8.26	18 29 7.9	15 37.7	137.38	16 14.39
	29	Mo	13 7.90	20 42 30.26	4 7.43	18 13 30.2	15 57.2	137.15	16 14.27
	30	Di	13 18.77	20 46 37.69	4 6.59	17 57 33.0	16 16.4	136.93	16 14.15
	31	Mi	+13 28.80	20 50 44.28	4 5.76	—17 41 16.6	16 35.2	136.70	16 14.02
Febr.	1	Do	13 38.00	20 54 50.04	4 4.94	17 24 41.4	16 53.6	136.47	16 13.88
	2	Fr	13 46.38	20 58 54.98	4 4.11	17 7 47.8	17 11.5	136.24	16 13.74
	3	Sa	13 53.94	21 2 59.09	4 3.29	16 50 36.3	17 29.2	136.01	16 13.59
	4	So	14 0.68	21 7 2.38	4 2.48	16 33 7.1	17 46.4	135.78	16 13.43
	5	Mo	+14 6.60	21 11 4.86	4 1.68	—16 15 20.7	18 3.3	135.55	16 13.27
	6	Di	14 11.72	21 15 6.54	4 0.89	15 57 17.4	18 19.8	135.32	16 13.11
	7	Mi	14 16.05	21 19 7.43	4 0.10	15 38 57.6	18 35.9	135.09	16 12.94
	8	Do	14 19.59	21 23 7.53	3 59.31	15 20 21.7	18 51.6	134.86	16 12.76
	9	Fr	14 22.35	21 27 6.84		15 1 30.1		134.63	16 12.58

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 $d\lambda$	$d\varepsilon$
Jan.	1	1	18h 38m 58s.74	279° 41′ 57″.81	61′ 8″.47	+0″.60	9.9926510	42	−21	−5
	2	2	18 42 55.30	280 43 6.28	61 8.33	+0.69	9.9926468	14	−13	−8
	3	3	18 46 51.86	281 44 14.61	61 8.23	+0.76	9.9926454	15	− 3	−9
	4	4	18 50 48.41	282 45 22.84	61 8.16	+0.81	9.9926469	45	+ 8	−8
	5	5	18 54 44.97	283 46 31.00	61 8.15	+0.83	9.9926514	74	+16	−6
	6	6	18 58 41.53	284 47 39.15	61 8.16	+0.83	9.9926588	104	+23	−2
	7	7	19 2 38.09	285 48 47.31	61 8.21	+0.79	9.9926692	131	+24	+2
	8	8	19 6 34.65	286 49 55.52	61 8.26	+0.72	9.9926823	157	+21	+6
	9	9	19 10 31.21	287 51 3.78	61 8.31	+0.62	9.9926980	183	+15	+8
	10	10	19 14 27.77	288 52 12.09	61 8.34	+0.49	9.9927163	206	+ 9	+9
	11	11	19 18 24.32	289 53 20.43	61 8.30	+0.35	9.9927369	229	− 2	+8
	12	12	19 22 20.88	290 54 28.73	61 8.21	+0.22	9.9927598	249	−10	+5
	13	13	19 26 17.44	291 55 36.94	61 8.07	+0.09	9.9927847	269	−14	+1
	14	14	19 30 14.00	292 56 45.01	61 7.86	−0.03	9.9928116	288	−15	−3
	15	15	19 34 10.56	293 57 52.87	61 7.57	−0.13	9.9928404	306	−11	−6
	16	16	19 38 7.12	294 59 0.44	61 7.20	−0.21	9.9928710	324	− 4	−8
	17	17	19 42 3.67	296 0 7.64	61 6.75	−0.28	9.9929034	341	+ 3	−9
	18	18	19 46 0.23	297 1 14.39	61 6.22	−0.32	9.9929375	357	+11	−7
	19	19	19 49 56.79	298 2 20.61	61 5.60	−0.34	9.9929732	373	+15	−5
	20	20	19 53 53.35	299 3 26.21	61 4.90	−0.33	9.9930105	389	+17	−1
	21	21	19 57 49.91	300 4 31.11	61 4.12	−0.28	9.9930494	406	+15	+3
	22	22	20 1 46.46	301 5 35.23	61 3.26	−0.21	9.9930900	422	+ 9	+7
	23	23	20 5 43.02	302 6 38.49	61 2.30	−0.12	9.9931322	439	0	+9
	24	24	20 9 39.58	303 7 40.79	61 1.26	−0.02	9.9931761	456	−11	+9
	25	25	20 13 36.14	304 8 42.05	61 0.17	+0.09	9.9932217	475	−19	+7
	26	26	20 17 32.69	305 9 42.22	60 59.01	+0.21	9.9932692	494	−25	+4
	27	27	20 21 29.25	306 10 41.23	60 57.80	+0.34	9.9933186	515	−26	0
	28	28	20 25 25.81	307 11 39.03	60 56.56	+0.47	9.9933701	537	−23	−4
	29	29	20 29 22.37	308 12 35.59	60 55.31	+0.57	9.9934238	560	−16	−7
	30	30	20 33 18.92	309 13 30.90	60 54.06	+0.65	9.9934798	584	− 7	−9
	31	31	20 37 15.48	310 14 24.96	60 52.84	+0.70	9.9935382	610	+ 4	−9
Febr.	1	32	20 41 12.04	311 15 17.80	60 51.65	+0.71	9.9935992	635	+14	−7
	2	33	20 45 8.59	312 16 9.45	60 50.51	+0.70	9.9936627	662	+21	−3
	3	34	20 49 5.15	313 16 59.96	60 49.41	+0.66	9.9937289	687	+23	+1
	4	35	20 53 1.71	314 17 49.37	60 48.35	+0.58	9.9937976	713	+23	+5
	5	36	20 56 58.26	315 18 37.72	60 47.34	+0.48	9.9938689	736	+17	+7
	6	37	21 0 54.82	316 19 25.06	60 46.36	+0.36	9.9939425	759	+ 8	+9
	7	38	21 4 51.37	317 20 11.42	60 45.37	+0.23	9.9940184	780	0	+8
	8	39	21 8 47.93	318 20 56.79	60 44.38	+0.09	9.9940964	800	− 8	+6
	9	40	21 12 44.49	319 21 41.17		−0.04	9.9941764		−13	+3

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr. 8	Do	+14 19.59	21 23 7.53	3 59.31	−15 20 21.7	18 51.6	134.86	16 12.76
9	Fr	14 22.35	21 27 6.84	3 58.54	15 1 30.1	19 6.8	134.63	16 12.58
10	Sa	14 24.34	21 31 5.38	3 57.77	14 42 23.3	19 21.7	134.41	16 12.40
11	So	14 25.56	21 35 3.15	3 57.00	14 23 1.6	19 36.1	134.19	16 12.21
12	Mo	14 26.01	21 39 0.15	3 56.24	14 3 25.5	19 50.2	133.97	16 12.02
13	Di	+14 25.69	21 42 56.39	3 55.50	−13 43 35.3	20 3.8	133.75	16 11.83
14	Mi	14 24.63	21 46 51.89	3 54.76	13 23 31.5	20 17.0	133.53	16 11.63
15	Do	14 22.83	21 50 46.65	3 54.03	13 3 14.5	20 29.8	133.32	16 11.43
16	Fr	14 20.30	21 54 40.68	3 53.31	12 42 44.7	20 42.0	133.11	16 11.23
17	Sa	14 17.05	21 58 33.99	3 52.59	12 22 2.7	20 54.0	132.90	16 11.03
18	So	+14 13.09	22 2 26.58	3 51.88	−12 1 8.7	21 5.4	132.70	16 10.82
19	Mo	14 8.42	22 6 18.46	3 51.19	11 40 3.3	21 16.5	132.50	16 10.62
20	Di	14 3.05	22 10 9.65	3 50.51	11 18 46.8	21 27.1	132.30	16 10.41
21	Mi	13 57.00	22 14 0.16	3 49.84	10 57 19.7	21 37.2	132.11	16 10.19
22	Do	13 50.29	22 17 50.00	3 49.18	10 35 42.5	21 46.9	131.92	16 9.98
23	Fr	+13 42.92	22 21 39.18	3 48.53	−10 13 55.6	21 56.2	131.74	16 9.76
24	Sa	13 34.90	22 25 27.71	3 47.89	9 51 59.4	22 5.0	131.56	16 9.54
25	So	13 26.24	22 29 15.60	3 47.28	9 29 54.4	22 13.5	131.38	16 9.32
26	Mo	13 16.96	22 33 2.88	3 46.68	9 7 40.9	22 21.5	131.21	16 9.10
27	Di	13 7.08	22 36 49.56	3 46.10	8 45 19.4	22 29.2	131.05	16 8.87
28	Mi	+12 56.62	22 40 35.66	3 45.53	− 8 22 50.2	22 36.3	130.89	16 8.64
29	Do	12 45.60	22 44 21.19	3 44.99	8 0 13.9	22 43.2	130.73	16 8.41
März 1	Fr	12 34.04	22 48 6.18	3 44.47	7 37 30.7	22 49.7	130.58	16 8.17
2	Sa	12 21.96	22 51 50.65	3 43.98	7 14 41.0	22 55.8	130.44	16 7.93
3	So	12 9.38	22 55 34.63	3 43.51	6 51 45.2	23 1.6	130.30	16 7.69
4	Mo	+11 56.33	22 59 18.14	3 43.05	− 6 28 43.6	23 7.0	130.16	16 7.44
5	Di	11 42.83	23 3 1.19	3 42.62	6 5 36.6	23 12.0	130.03	16 7.19
6	Mi	11 28.90	23 6 43.81	3 42.22	5 42 24.6	23 16.7	129.90	16 6.94
7	Do	11 14.56	23 10 26.03	3 41.84	5 19 7.9	23 21.0	129.78	16 6.68
8	Fr	10 59.84	23 14 7.87	3 41.47	4 55 46.9	23 25.0	129.67	16 6.42
9	Sa	+10 44.76	23 17 49.34	3 41.13	− 4 32 21.9	23 28.5	129.56	16 6.15
10	So	10 29.34	23 21 30.47	3 40.81	4 8 53.4	23 31.8	129.46	16 5.89
11	Mo	10 13.60	23 25 11.28	3 40.51	3 45 21.6	23 34.6	129.36	16 5.62
12	Di	9 57.56	23 28 51.79	3 40.22	3 21 47.0	23 37.1	129.27	16 5.35
13	Mi	9 41.23	23 32 32.01	3 39.96	2 58 9.9	23 39.1	129.18	16 5.08
14	Do	+ 9 24.63	23 36 11.97	3 39.71	− 2 34 30.8	23 40.8	129.10	16 4.81
15	Fr	9 7.78	23 39 51.68	3 39.49	2 10 50.0	23 42.1	129.03	16 4.54
16	Sa	8 50.72	23 43 31.17	3 39.28	1 47 7.9	23 43.0	128.96	16 4.27
17	So	8 33.45	23 47 10.45	3 39.09	1 23 24.9	23 43.6	128.90	16 4.00
18	Mo	8 15.98	23 50 49.54		0 59 41.3		128.84	16 3.73

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
		h m s	° ′ ″	′ ″	″				
Febr. 8	39	21 8 47.93	318 20 56.79	60 44.38	+0.09	9.9940964	800	− 8	+6
9	40	21 12 44.49	319 21 41.17	60 43.35	−0.04	9.9941764	818	−13	+3
10	41	21 16 41.04	320 22 24.52	60 42.26	−0.16	9.9942582	835	−14	−1
11	42	21 20 37.60	321 23 6.78	60 41.14	−0.27	9.9943417	851	−12	−5
12	43	21 24 34.15	322 23 47.92	60 39.99	−0.36	9.9944268	864	− 6	−8
13	44	21 28 30.71	323 24 27.91	60 38.78	−0.43	9.9945132	877	+ 1	−9
14	45	21 32 27.26	324 25 6.69	60 37.50	−0.47	9.9946009	890	+ 9	−8
15	46	21 36 23.82	325 25 44.19	60 36.15	−0.49	9.9946899	901	+15	−6
16	47	21 40 20.38	326 26 20.34	60 34.73	−0.47	9.9947800	912	+18	−2
17	48	21 44 16.93	327 26 55.07	60 33.26	−0.43	9.9948712	921	+16	+2
18	49	21 48 13.49	328 27 28.33	60 31.71	−0.37	9.9949633	930	+11	+6
19	50	21 52 10.04	329 28 0.04	60 30.07	−0.29	9.9950563	939	+ 3	+8
20	51	21 56 6.60	330 28 30.11	60 28.34	−0.19	9.9951502	949	− 7	+9
21	52	22 0 3.15	331 28 58.45	60 26.54	−0.07	9.9952451	958	−17	+8
22	53	22 3 59.71	332 29 24.99	60 24.68	+0.05	9.9953409	968	−24	+5
23	54	22 7 56.26	333 29 49.67	60 22.75	+0.17	9.9954377	979	−26	+1
24	55	22 11 52.81	334 30 12.42	60 20.77	+0.29	9.9955356	989	−25	−3
25	56	22 15 49.37	335 30 33.19	60 18.76	+0.40	9.9956345	1002	−20	−6
26	57	22 19 45.92	336 30 51.95	60 16.71	+0.48	9.9957347	1016	−10	−8
27	58	22 23 42.48	337 31 8.66	60 14.66	+0.53	9.9958363	1030	0	−9
28	59	22 27 39.03	338 31 23.32	60 12.63	+0.56	9.9959393	1045	+11	−7
29	60	22 31 35.59	339 31 35.95	60 10.63	+0.56	9.9960438	1062	+19	−5
März 1	61	22 35 32.14	340 31 46.58	60 8.67	+0.53	9.9961500	1079	+23	−1
2	62	22 39 28.70	341 31 55.25	60 6.78	+0.46	9.9962579	1097	+23	+3
3	63	22 43 25.25	342 32 2.03	60 4.95	+0.35	9.9963676	1113	+19	+7
4	64	22 47 21.80	343 32 6.98	60 3.18	+0.22	9.9964789	1130	+11	+9
5	65	22 51 18.36	344 32 10.16	60 1.44	+0.09	9.9965919	1145	+ 2	+9
6	66	22 55 14.91	345 32 11.60	59 59.76	−0.04	9.9967064	1159	− 5	+7
7	67	22 59 11.47	346 32 11.36	59 58.09	−0.18	9.9968223	1173	−11	+4
8	68	23 3 8.02	347 32 9.45	59 56.43	−0.31	9.9969396	1183	−14	0
9	69	23 7 4.57	348 32 5.88	59 54.77	−0.43	9.9970579	1192	−13	−4
10	70	23 11 1.13	349 32 0.65	59 53.11	−0.52	9.9971771	1201	− 8	−7
11	71	23 14 57.68	350 31 53.76	59 51.42	−0.60	9.9972972	1207	− 1	−9
12	72	23 18 54.23	351 31 45.18	59 49.71	−0.65	9.9974179	1213	+ 6	−9
13	73	23 22 50.79	352 31 34.89	59 47.97	−0.67	9.9975392	1218	+13	−7
14	74	23 26 47.34	353 31 22.86	59 46.19	−0.66	9.9976610	1220	+17	−3
15	75	23 30 43.90	354 31 9.05	59 44.37	−0.63	9.9977830	1222	+17	+1
16	76	23 34 40.45	355 30 53.42	59 42.50	−0.57	9.9979052	1223	+14	+5
17	77	23 38 37.00	356 30 35.92	59 40.59	−0.49	9.9980275	1222	+ 6	+7
18	78	23 42 33.56	357 30 16.51		−0.39	9.9981497		− 4	+9

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 17	So	+8 33.45	23 47 10.45	3 39.09	— 1 23 24.9	23 43.6	128.90	16 4.00
18	Mo	8 15.98	23 50 49.54	3 38.91	0 59 41.3	23 43.7	128.84	16 3.73
19	Di	7 58.34	23 54 28.45	3 38.75	0 35 57.6	23 43.4	128.79	16 3.46
20	Mi	7 40.54	23 58 7.20	3 38.61	— 0 12 14.2	23 42.8	128.75	16 3.19
21	Do	7 22.60	0 1 45.81	3 38.49	+ 0 11 28.6	23 41.7	128.72	16 2.92
22	Fr	+7 4.53	0 5 24.30	3 38.38	+ 0 35 10.3	23 40.3	128.69	16 2.65
23	Sa	6 46.35	0 9 2.68	3 38.30	0 58 50.6	23 38.5	128.67	16 2.38
24	So	6 28.09	0 12 40.98	3 38.23	1 22 29.1	23 36.3	128.65	16 2.11
25	Mo	6 9.77	0 16 19.21	3 38.18	1 46 5.4	23 33.7	128.63	16 1.84
26	Di	5 51.40	0 19 57.39	3 38.15	2 9 39.1	23 30.8	128.62	16 1.57
27	Mi	+5 33.00	0 23 35.54	3 38.13	+ 2 33 9.9	23 27.5	128.62	16 1.30
28	Do	5 14.58	0 27 13.67	3 38.14	2 56 37.4	23 23.9	128.63	16 1.03
29	Fr	4 56.17	0 30 51.81	3 38.18	3 20 1.3	23 20.0	128.64	16 0.76
30	Sa	4 37.80	0 34 29.99	3 38.24	3 43 21.3	23 15.7	128.66	16 0.48
31	So	4 19.48	0 38 8.23	3 38.32	4 6 37.0	23 11.2	128.68	16 0.21
April 1	Mo	+4 1.24	0 41 46.55	3 38.42	+ 4 29 48.2	23 6.3	128.71	15 59.93
2	Di	3 43.11	0 45 24.97	3 38.54	4 52 54.5	23 1.0	128.75	15 59.66
3	Mi	3 25.10	0 49 3.51	3 38.70	5 15 55.5	22 55.5	128.79	15 59.38
4	Do	3 7.24	0 52 42.21	3 38.87	5 38 51.0	22 49.7	128.83	15 59.10
5	Fr	2 49.55	0 56 21.08	3 39.06	6 1 40.7	22 43.6	128.88	15 58.82
6	Sa	+2 32.06	1 0 0.14	3 39.27	+ 6 24 24.3	22 37.1	128.94	15 58.54
7	So	2 14.78	1 3 39.41	3 39.50	6 47 1.4	22 30.3	129.00	15 58.26
8	Mo	1 57.73	1 7 18.91	3 39.76	7 9 31.7	22 23.1	129.06	15 57.98
9	Di	1 40.93	1 10 58.67	3 40.02	7 31 54.8	22 15.6	129.13	15 57.70
10	Mi	1 24.40	1 14 38.69	3 40.31	7 54 10.4	22 7.8	129.21	15 57.43
11	Do	+1 8.15	1 18 19.00	3 40.61	+ 8 16 18.2	21 59.6	129.29	15 57.15
12	Fr	0 52.20	1 21 59.61	3 40.92	8 38 17.8	21 51.0	129.38	15 56.87
13	Sa	0 36.57	1 25 40.53	3 41.26	9 0 8.8	21 42.2	129.47	15 56.60
14	So	0 21.27	1 29 21.79	3 41.60	9 21 51.0	21 33.0	129.56	15 56.33
15	Mo	+0 6.32	1 33 3.39	3 41.96	9 43 24.0	21 23.4	129.66	15 56.06
16	Di	—0 8.27	1 36 45.35	3 42.34	+10 4 47.4	21 13.4	129.76	15 55.79
17	Mi	0 22.48	1 40 27.69	3 42.72	10 26 0.8	21 3.1	129.87	15 55.52
18	Do	0 36.32	1 44 10.41	3 43.10	10 47 3.9	20 52.4	129.99	15 55.26
19	Fr	0 49.77	1 47 53.51	3 43.50	11 7 56.3	20 41.3	130.11	15 55.00
20	Sa	1 2.82	1 51 37.01	3 43.92	11 28 37.6	20 29.9	130.23	15 54.74
21	So	—1 15.46	1 55 20.93	3 44.34	+11 49 7.5	20 18.2	130.36	15 54.49
22	Mo	1 27.68	1 59 5.27	3 44.76	12 9 25.7	20 6.1	130.49	15 54.24
23	Di	1 39.47	2 2 50.03	3 45.21	12 29 31.8	19 53.6	130.62	15 53.99
24	Mi	1 50.82	2 6 35.24	3 45.66	12 49 25.4	19 40.9	130.76	15 53.74
25	Do	2 1.71	2 10 20.90		13 9 6.3		130.90	15 53.50

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit (h m s)	Mittleres Äqu. 1912.0 Länge (° ' ")	Diff. (' ")	Breite (")	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
März 17	77	23 38 37.00	356 30 35.92	59 40.59	−0.49	9.9980275	1222	+ 6	+7
18	78	23 42 33.56	357 30 16.51	59 38.61	−0.39	9.9981497	1222	− 4	+9
19	79	23 46 30.11	358 29 55.12	59 36.56	−0.27	9.9982719	1220	−14	+8
20	80	23 50 26.66	359 29 31.68	59 34.44	−0.14	9.9983939	1219	−22	+6
21	81	23 54 23.22	0 29 6.12	59 32.26	−0.01	9.9985158	1217	−26	+3
22	82	23 58 19.77	1 28 38.38	59 30.01	+0.11	9.9986375	1216	−26	−1
23	83	0 2 16.33	2 28 8.39	59 27.72	+0.22	9.9987591	1215	−22	−5
24	84	0 6 12.88	3 27 36.11	59 25.39	+0.32	9.9988806	1216	−14	−8
25	85	0 10 9.43	4 27 1.50	59 23.04	+0.39	9.9990022	1217	− 4	−9
26	86	0 14 5.99	5 26 24.54	59 20.68	+0.42	9.9991239	1219	+ 7	−8
27	87	0 18 2.54	6 25 45.22	59 18.34	+0.42	9.9992458	1223	+16	−6
28	88	0 21 59.09	7 25 3.56	59 16.02	+0.39	9.9993681	1227	+22	−2
29	89	0 25 55.65	8 24 19.58	59 13.74	+0.33	9.9994908	1233	+23	+2
30	90	0 29 52.20	9 23 33.32	59 11.53	+0.24	9.9996141	1238	+21	+6
31	91	0 33 48.75	10 22 44.85	59 9.38	+0.12	9.9997379	1245	+14	+8
April 1	92	0 37 45.31	11 21 54.23	59 7.29	−0.01	9.9998624	1251	+ 5	+9
2	93	0 41 41.86	12 21 1.52	59 5.28	−0.15	9.9999875	1257	− 3	+8
3	94	0 45 38.41	13 20 6.80	59 3.35	−0.29	0.0001132	1261	−10	+5
4	95	0 49 34.97	14 19 10.15	59 1.47	−0.43	0.0002393	1264	−14	+1
5	96	0 53 31.52	15 18 11.62	58 59.62	−0.56	0.0003657	1267	−13	−3
6	97	0 57 28.08	16 17 11.24	58 57.81	−0.67	0.0004924	1268	−10	−6
7	98	1 1 24.63	17 16 9.05	58 56.04	−0.75	0.0006192	1267	− 3	−8
8	99	1 5 21.19	18 15 5.09	58 54.28	−0.81	0.0007459	1266	+ 4	−9
9	100	1 9 17.74	19 13 59.37	58 52.53	−0.84	0.0008725	1263	+12	−7
10	101	1 13 14.29	20 12 51.90	58 50.78	−0.84	0.0009988	1258	+17	−5
11	102	1 17 10.85	21 11 42.68	58 49.02	−0.81	0.0011246	1252	+18	−1
12	103	1 21 7.40	22 10 31.70	58 47.26	−0.76	0.0012498	1245	+15	+3
13	104	1 25 3.96	23 9 18.96	58 45.49	−0.68	0.0013743	1237	+ 8	+7
14	105	1 29 0.51	24 8 4.45	58 43.69	−0.58	0.0014980	1227	− 1	+9
15	106	1 32 57.07	25 6 48.14	58 41.85	−0.47	0.0016207	1217	−10	+9
16	107	1 36 53.62	26 5 29.99	58 39.96	−0.35	0.0017424	1205	−19	+7
17	108	1 40 50.17	27 4 9.95	58 38.02	−0.22	0.0018629	1193	−25	+4
18	109	1 44 46.73	28 2 47.97	58 36.00	−0.09	0.0019822	1180	−26	0
19	110	1 48 43.28	29 1 23.97	58 33.94	+0.03	0.0021002	1167	−24	−4
20	111	1 52 39.84	29 59 57.91	58 31.84	+0.13	0.0022169	1155	−17	−7
21	112	1 56 36.39	30 58 29.75	58 29.71	+0.21	0.0023324	1144	− 7	−9
22	113	2 0 32.95	31 56 59.46	58 27.55	+0.26	0.0024468	1134	+ 3	−9
23	114	2 4 29.50	32 55 27.01	58 25.37	+0.27	0.0025602	1124	+14	−7
24	115	2 8 26.06	33 53 52.38	58 23.19	+0.25	0.0026726	1116	+20	−3
25	116	2 12 22.61	34 52 15.57		+0.20	0.0027842		+23	+1

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
April	24	Mi	—1 50.82	2 6 35.24	3 45.66	+12 49 25.4	19 40.9	130.76	15 53.74
	25	Do	2 1.71	2 10 20.90	3 46.13	13 9 6.3	19 27.8	130.90	15 53.50
	26	Fr	2 12.14	2 14 7.03	3 46.60	13 28 34.1	19 14.4	131.04	15 53.25
	27	Sa	2 22.09	2 17 53.63	3 47.09	13 47 48.5	19 0.7	131.18	15 53.01
	28	So	2 31.56	2 21 40.72	3 47.59	14 6 49.2	18 46.7	131.33	15 52.77
	29	Mo	—2 40.53	2 25 28.31	3 48.10	+14 25 35.9	18 32.5	131.48	15 52.53
	30	Di	2 48.98	2 29 16.41	3 48.63	14 44 8.4	18 17.9	131.64	15 52.29
Mai	1	Mi	2 56.91	2 33 5.04	3 49.16	15 2 26.3	18 3.1	131.79	15 52.06
	2	Do	3 4.30	2 36 54.20	3 49.71	15 20 29.4	17 47.9	131.95	15 51.82
	3	Fr	3 11.15	2 40 43.91	3 50.26	15 38 17.3	17 32.4	132.11	15 51.58
	4	Sa	—3 17.44	2 44 34.17	3 50.83	+15 55 49.7	17 16.7	132.27	15 51.35
	5	So	3 23.17	2 48 25.00	3 51.41	16 13 6.4	17 0.7	132.43	15 51.12
	6	Mo	3 28.32	2 52 16.41	3 51.98	16 30 7.1	16 44.4	132.59	15 50.89
	7	Di	3 32.89	2 56 8.39	3 52.57	16 46 51.5	16 27.7	132.75	15 50.66
	8	Mi	3 36.88	3 0 0.96	3 53.15	17 3 19.2	16 10.8	132.91	15 50.43
	9	Do	—3 40.28	3 3 54.11	3 53.75	+17 19 30.0	15 53.5	133.07	15 50.21
	10	Fr	3 43.09	3 7 47.86	3 54.33	17 35 23.5	15 36.0	133.24	15 49.99
	11	Sa	3 45.31	3 11 42.19	3 54.93	17 50 59.5	15 18.1	133.40	15 49.77
	12	So	3 46.95	3 15 37.12	3 55.51	18 6 17.6	15 0.0	133.57	15 49.55
	13	Mo	3 47.99	3 19 32.63	3 56.11	18 21 17.6	14 41.6	133.73	15 49.34
	14	Di	—3 48.44	3 23 28.74	3 56.69	+18 35 59.2	14 22.8	133.90	15 49.14
	15	Mi	3 48.30	3 27 25.43	3 57.27	18 50 22.0	14 3.7	134.06	15 48.93
	16	Do	3 47.59	3 31 22.70	3 57.83	19 4 25.7	13 44.3	134.22	15 48.74
	17	Fr	3 46.32	3 35 20.53	3 58.39	19 18 10.0	13 24.7	134.38	15 48.54
	18	Sa	3 44.49	3 39 18.92	3 58.95	19 31 34.7	13 4.7	134.54	15 48.35
	19	So	—3 42.10	3 43 17.87	3 59.49	+19 44 39.4	12 44.5	134.70	15 48.17
	20	Mo	3 39.16	3 47 17.36	4 0.01	19 57 23.9	12 24.1	134.85	15 47.99
	21	Di	3 35.70	3 51 17.37	4 0.53	20 9 48.0	12 3.3	135.00	15 47.82
	22	Mi	3 31.73	3 55 17.90	4 1.04	20 21 51.3	11 42.4	135.15	15 47.65
	23	Do	3 27.25	3 59 18.94	4 1.54	20 33 33.7	11 21.1	135.30	15 47.48
	24	Fr	—3 22.27	4 3 20.48	4 2.02	+20 44 54.8	10 59.6	135.45	15 47.32
	25	Sa	3 16.80	4 7 22.50	4 2.51	20 55 54.4	10 38.0	135.59	15 47.16
	26	So	3 10.85	4 11 25.01	4 2.98	21 6 32.4	10 16.2	135.73	15 47.00
	27	Mo	3 4.43	4 15 27.99	4 3.44	21 16 48.6	9 54.1	135.87	15 46.84
	28	Di	2 57.55	4 19 31.43	4 3.89	21 26 42.7	9 31.8	136.00	15 46.69
	29	Mi	—2 50.22	4 23 35.32	4 4.33	+21 36 14.5	9 9.4	136.13	15 46.54
	30	Do	2 42.45	4 27 39.65	4 4.76	21 45 23.9	8 46.8	136.25	15 46.40
	31	Fr	2 34.24	4 31 44.41	4 5.19	21 54 10.7	8 24.0	136.37	15 46.25
Juni	1	Sa	2 25.61	4 35 49.60	4 5.60	22 2 34.7	8 1.1	136.48	15 46.11
	2	So	2 16.57	4 39 55.20		22 10 35.8		136.59	15 45.98

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.1 dλ	dε
			h m s	° ′ ″	′ ″	″				
April	24	115	2 8 26.06	33 53 52.38	58 23.19	+0.25	0.0026726	1116	+20	−3
	25	116	2 12 22.61	34 52 15.57	58 21.05	+0.20	0.0027842	1109	+23	+1
	26	117	2 16 19.17	35 50 36.62	58 18.96	+0.12	0.0028951	1102	+21	+5
	27	118	2 20 15.72	36 48 55.58	58 16.92	+0.01	0.0030053	1098	+16	+7
	28	119	2 24 12.28	37 47 12.50	58 14.95	−0.12	0.0031151	1093	+8	+9
	29	120	2 28 8.84	38 45 27.45	58 13.06	−0.26	0.0032244	1088	0	+8
	30	121	2 32 5.39	39 43 40.51	58 11.24	−0.41	0.0033332	1084	−8	+6
Mai	1	122	2 36 1.95	40 41 51.75	58 9.49	−0.56	0.0034416	1080	−13	+3
	2	123	2 39 58.50	41 40 1.24	58 7.82	−0.69	0.0035496	1075	−14	−1
	3	124	2 43 55.06	42 38 9.06	58 6.24	−0.79	0.0036571	1068	−12	−5
	4	125	2 47 51.61	43 36 15.30	58 4.72	−0.87	0.0037639	1062	−5	−8
	5	126	2 51 48.17	44 34 20.02	58 3.25	−0.93	0.0038701	1054	+2	−9
	6	127	2 55 44.73	45 32 23.27	58 1.83	−0.96	0.0039755	1044	+11	−8
	7	128	2 59 41.28	46 30 25.10	58 0.44	−0.97	0.0040799	1034	+16	−6
	8	129	3 3 37.84	47 28 25.54	57 59.08	−0.95	0.0041833	1022	+19	−2
	9	130	3 7 34.40	48 26 24.62	57 57.75	−0.90	0.0042855	1010	+16	+2
	10	131	3 11 30.95	49 24 22.37	57 56.45	−0.83	0.0043865	996	+12	+6
	11	132	3 15 27.51	50 22 18.82	57 55.16	−0.74	0.0044861	980	+3	+8
	12	133	3 19 24.07	51 20 13.98	57 53.88	−0.63	0.0045841	964	−7	+9
	13	134	3 23 20.62	52 18 7.86	57 52.59	−0.51	0.0046805	945	−17	+8
	14	135	3 27 17.18	53 16 0.45	57 51.28	−0.38	0.0047750	926	−24	+5
	15	136	3 31 13.74	54 13 51.73	57 49.93	−0.25	0.0048676	905	−27	+1
	16	137	3 35 10.29	55 11 41.66	57 48.53	−0.13	0.0049581	885	−25	−3
	17	138	3 39 6.85	56 9 30.19	57 47.09	−0.02	0.0050466	864	−19	−6
	18	139	3 43 3.41	57 7 17.28	57 45.59	+0.07	0.0051330	842	−11	−8
	19	140	3 46 59.96	58 5 2.87	57 44.05	+0.12	0.0052172	821	0	−9
	20	141	3 50 56.52	59 2 46.92	57 42.48	+0.14	0.0052993	802	+10	−7
	21	142	3 54 53.08	60 0 29.40	57 40.90	+0.14	0.0053795	783	+18	−4
	22	143	3 58 49.64	60 58 10.30	57 39.32	+0.11	0.0054578	765	+22	0
	23	144	4 2 46.19	61 55 49.62	57 37.76	+0.04	0.0055343	749	+22	+3
	24	145	4 6 42.75	62 53 27.38	57 36.24	−0.06	0.0056092	734	+17	+7
	25	146	4 10 39.31	63 51 3.62	57 34.77	−0.18	0.0056826	720	+10	+9
	26	147	4 14 35.87	64 48 38.39	57 33.34	−0.31	0.0057546	707	+2	+9
	27	148	4 18 32.43	65 46 11.73	57 32.01	−0.45	0.0058253	694	−6	+7
	28	149	4 22 28.98	66 43 43.74	57 30.76	−0.59	0.0058947	682	−11	+4
	29	150	4 26 25.54	67 41 14.50	57 29.59	−0.71	0.0059629	671	−13	0
	30	151	4 30 22.10	68 38 44.09	57 28.50	−0.81	0.0060300	659	−12	−4
	31	152	4 34 18.66	69 36 12.59	57 27.49	−0.90	0.0060959	647	−7	−7
Juni	1	153	4 38 15.21	70 33 40.08	57 26.57	−0.97	0.0061606	634	+1	−9
	2	154	4 42 11.77	71 31 6.65		−1.01	0.0062240		+8	−9

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni	1	Sa	—2 25.61	4 35 49.60	4 5.60	+22 2 34.7	8 1.1	136.48	15 46.11
	2	So	2 16.57	4 39 55.20	4 5.99	22 10 35.8	7 38.0	136.59	15 45.98
	3	Mo	2 7.14	4 44 1.19	4 6.37	22 18 13.8	7 14.7	136.69	15 45.84
	4	Di	1 57.33	4 48 7.56	4 6.74	22 25 28.5	6 51.2	136.79	15 45.71
	5	Mi	1 47.15	4 52 14.30	4 7.08	22 32 19.7	6 27.6	136.89	15 45.58
	6	Do	—1 36.62	4 56 21.38	4 7.42	+22 38 47.3	6 3.8	136.98	15 45.45
	7	Fr	1 25.76	5 0 28.80	4 7.73	22 44 51.1	5 40.0	137.07	15 45.33
	8	Sa	1 14.59	5 4 36.53	4 8.02	22 50 31.1	5 16.0	137.15	15 45.21
	9	So	1 3.13	5 8 44.55	4 8.30	22 55 47.1	4 51.9	137.22	15 45.10
	10	Mo	0 51.39	5 12 52.85	4 8.55	23 0 39.0	4 27.6	137.29	15 44.99
	11	Di	—0 39.40	5 17 1.40	4 8.77	+23 5 6.6	4 3.2	137.35	15 44.89
	12	Mi	0 27.18	5 21 10.17	4 8.98	23 9 9.8	3 38.7	137.40	15 44.79
	13	Do	0 14.76	5 25 19.15	4 9.16	23 12 48.5	3 14.2	137.45	15 44.69
	14	Fr	—0 2.16	5 29 28.31	4 9.31	23 16 2.7	2 49.5	137.49	15 44.60
	15	Sa	+0 10.59	5 33 37.62	4 9.42	23 18 52.2	2 24.8	137.53	15 44.52
	16	So	+0 23.45	5 37 47.04	4 9.51	+23 21 17.0	2 0.1	137.56	15 44.44
	17	Mo	0 36.40	5 41 56.55	4 9.58	23 23 17.1	1 35.3	137.58	15 44.37
	18	Di	0 49.42	5 46 6.13	4 9.61	23 24 52.4	1 10.4	137.60	15 44.31
	19	Mi	1 2.47	5 50 15.74	4 9.62	23 26 2.8	0 45.6	137.61	15 44.25
	20	Do	1 15.53	5 54 25.36	4 9.61	23 26 48.4	0 20.8	137.62	15 44.19
	21	Fr	+1 28.58	5 58 34.97	4 9.56	+23 27 9.2	0 4.1	137.62	15 44.14
	22	Sa	1 41.59	6 2 44.53	4 9.49	23 27 5.1	0 28.9	137.61	15 44.09
	23	So	1 54.52	6 6 54.02	4 9.40	23 26 36.2	0 53.6	137.60	15 44.05
	24	Mo	2 7.36	6 11 3.42	4 9.30	23 25 42.6	1 18.3	137.58	15 44.01
	25	Di	2 20.10	6 15 12.72	4 9.17	23 24 24.3	1 43.1	137.55	15 43.98
	26	Mi	+2 32.71	6 19 21.89	4 9.02	+23 22 41.2	2 7.7	137.51	15 43.95
	27	Do	2 45.17	6 23 30.91	4 8.85	23 20 33.5	2 32.2	137.47	15 43.92
	28	Fr	2 57.47	6 27 39.76	4 8.67	23 18 1.3	2 56.7	137.42	15 43.90
	29	Sa	3 9.58	6 31 48.43	4 8.46	23 15 4.6	3 21.1	137.37	15 43.88
	30	So	3 21.48	6 35 56.89	4 8.23	23 11 43.5	3 45.4	137.31	15 43.86
Juli	1	Mo	+3 33.15	6 40 5.12	4 7.99	+23 7 58.1	4 9.7	137.24	15 43.84
	2	Di	3 44.58	6 44 13.11	4 7.73	23 3 48.4	4 33.8	137.17	15 43.83
	3	Mi	3 55.75	6 48 20.84	4 7.45	22 59 14.6	4 57.8	137.09	15 43.83
	4	Do	4 6.64	6 52 28.29	4 7.15	22 54 16.8	5 21.8	137.01	15 43.82
	5	Fr	4 17.24	6 56 35.44	4 6.84	22 48 55.0	5 45.6	136.92	15 43.82
	6	Sa	+4 27.52	7 0 42.28	4 6.51	+22 43 9.4	6 9.2	136.82	15 43.83
	7	So	4 37.47	7 4 48.79	4 6.15	22 37 0.2	6 32.8	136.72	15 43.83
	8	Mo	4 47.06	7 8 54.94	4 5.79	22 30 27.4	6 56.2	136.61	15 43.84
	9	Di	4 56.29	7 13 0.73	4 5.40	22 23 31.2	7 19.4	136.50	15 43.86
	10	Mi	5 5.13	7 17 6.13		22 16 11.8		136.38	15 43.88

Mittlerer Berliner Mittag.

Monat	Tag	Jahrestag	Sternzeit h m s	Mittleres Äqu. 1912.0 Länge ° ′ ″	Diff. ′ ″	Breite ″	Lg. Rad. v.	Diff.	Nut. in 0″.01 dλ	Nut. in 0″.01 dε
Juni	1	153	4 38 15.21	70 33 40.08	57 26.57	—0.97	0.0061606	634	+ 1	—9
	2	154	4 42 11.77	71 31 6.65	57 25.72	—1.01	0.0062240	621	+ 8	—9
	3	155	4 46 8.33	72 28 32.37	57 24.93	—1.02	0.0062861	607	+15	—6
	4	156	4 50 4.89	73 25 57.30	57 24.20	—1.01	0.0063468	592	+18	—3
	5	157	4 54 1.45	74 23 21.50	57 23.53	—0.97	0.0064060	577	+18	+1
	6	158	4 57 58.01	75 20 45.03	57 22.92	—0.90	0.0064637	559	+14	+5
	7	159	5 1 54.56	76 18 7.95	57 22.36	—0.81	0.0065196	541	+ 6	+7
	8	160	5 5 51.12	77 15 30.31	57 21.83	—0.70	0.0065737	523	— 4	+9
	9	161	5 9 47.68	78 12 52.14	57 21.33	—0.59	0.0066260	502	—13	+8
	10	162	5 13 44.24	79 10 13.47	57 20.85	—0.47	0.0066762	481	—22	+6
	11	163	5 17 40.80	80 7 34.32	57 20.38	—0.35	0.0067243	457	—27	+2
	12	164	5 21 37.36	81 4 54.70	57 19.89	—0.22	0.0067700	433	—26	—1
	13	165	5 25 33.92	82 2 14.59	57 19.37	—0.10	0.0068133	408	—22	—5
	14	166	5 29 30.47	82 59 33.96	57 18.81	—0.01	0.0068541	382	—14	—8
	15	167	5 33 27.03	83 56 52.77	57 18.20	+0.04	0.0068923	355	— 4	—9
	16	168	5 37 23.59	84 54 10.97	57 17.54	+0.06	0.0069278	328	+ 7	—8
	17	169	5 41 20.15	85 51 28.51	57 16.85	+0.05	0.0069606	304	+15	—6
	18	170	5 45 16.71	86 48 45.36	57 16.13	+0.02	0.0069910	279	+21	—2
	19	171	5 49 13.27	87 46 1.49	57 15.39	—0.04	0.0070189	255	+22	+2
	20	172	5 53 9.83	88 43 16.88	57 14.67	—0.12	0.0070444	233	+19	+6
	21	173	5 57 6.39	89 40 31.55	57 13.97	—0.23	0.0070677	213	+13	+8
	22	174	6 1 2.94	90 37 45.52	57 13.30	—0.35	0.0070890	193	+ 5	+9
	23	175	6 4 59.50	91 34 58.82	57 12.68	—0.47	0.0071083	176	— 4	+8
	24	176	6 8 56.06	92 32 11.50	57 12.15	—0.60	0.0071259	158	—10	+5
	25	177	6 12 52.62	93 29 23.65	57 11.69	—0.72	0.0071417	142	—13	+1
	26	178	6 16 49.18	94 26 35.34	57 11.30	—0.83	0.0071559	126	—13	—3
	27	179	6 20 45.74	95 23 46.64	57 10.98	—0.92	0.0071685	111	— 8	—6
	28	180	6 24 42.30	96 20 57.62	57 10.75	—0.98	0.0071796	96	— 1	—8
	29	181	6 28 38.85	97 18 8.37	57 10.61	—1.01	0.0071892	80	+ 6	—9
	30	182	6 32 35.41	98 15 18.98	57 10.54	—1.02	0.0071972	65	+13	—7
Juli	1	183	6 36 31.97	99 12 29.52	57 10.56	—1.01	0.0072037	50	+18	—4
	2	184	6 40 28.53	100 9 40.08	57 10.65	—0.98	0.0072087	34	+19	0
	3	185	6 44 25.09	101 6 50.73	57 10.80	—0.92	0.0072121	17	+16	+4
	4	186	6 48 21.65	102 4 1.53	57 11.03	—0.83	0.0072138	0	+ 9	+7
	5	187	6 52 18.21	103 1 12.56	57 11.33	—0.73	0.0072138	18	0	+9
	6	188	6 56 14.76	103 58 23.89	57 11.69	—0.62	0.0072120	37	—10	+9
	7	189	7 0 11.32	104 55 35.58	57 12.08	—0.49	0.0072083	57	—20	+7
	8	190	7 4 7.88	105 52 47.66	57 12.50	—0.36	0.0072026	78	—26	+4
	9	191	7 8 4.44	106 50 0.16	57 12.96	—0.24	0.0071948	101	—27	0
	10	192	7 12 1.00	107 47 13.12		—0.13	0.0071847		—24	—4

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	9	Di	+4 56.29	7 13 0.73	4 5.40	+22 23 31.2	7 19.4	136.50	15 43.86
	10	Mi	5 5.13	7 17 6.13	4 4.99	22 16 11.8	7 42.5	136.38	15 43.88
	11	Do	5 13.56	7 21 11.12	4 4.57	22 8 29.3	8 5.4	136.26	15 43.91
	12	Fr	5 21.57	7 25 15.69	4 4.12	22 0 23.9	8 28.1	136.13	15 43.94
	13	Sa	5 29.14	7 29 19.81	4 3.66	21 51 55.8	8 50.6	136.00	15 43.98
	14	So	+5 36.24	7 33 23.47	4 3.17	+21 43 5.2	9 12.9	135.87	15 44.03
	15	Mo	5 42.85	7 37 26.64	4 2.67	21 33 52.3	9 35.0	135.73	15 44.08
	16	Di	5 48.96	7 41 29.31	4 2.15	21 24 17.3	9 56.9	135.59	15 44.13
	17	Mi	5 54.55	7 45 31.46	4 1.61	21 14 20.4	10 18.5	135.44	15 44.19
	18	Do	5 59.60	7 49 33.07	4 1.05	21 4 1.9	10 39.8	135.29	15 44.26
	19	Fr	+6 4.10	7 53 34.12	4 0.49	+20 53 22.1	11 0.9	135.14	15 44.33
	20	Sa	6 8.03	7 57 34.61	3 59.92	20 42 21.2	11 21.8	134.99	15 44.41
	21	So	6 11.39	8 1 34.53	3 59.33	20 30 59.4	11 42.5	134.83	15 44.49
	22	Mo	6 14.17	8 5 33.86	3 58.74	20 19 16.9	12 2.8	134.67	15 44.58
	23	Di	6 16.35	8 9 32.60	3 58.15	20 7 14.1	12 22.8	134.51	15 44.67
	24	Mi	+6 17.94	8 13 30.75	3 57.56	+19 54 51.3	12 42.7	134.35	15 44.76
	25	Do	6 18.94	8 17 28.31	3 56.95	19 42 8.6	13 2.3	134.18	15 44.86
	26	Fr	6 19.34	8 21 25.26	3 56.35	19 29 6.3	13 21.6	134.01	15 44.96
	27	Sa	6 19.13	8 25 21.61	3 55.75	19 15 44.7	13 40.7	133.84	15 45.06
	28	So	6 18.32	8 29 17.36	3 55.14	19 2 4.0	13 59.5	133.67	15 45.17
	29	Mo	+6 16.91	8 33 12.50	3 54.54	+18 48 4.5	14 18.0	133.50	15 45.28
	30	Di	6 14.89	8 37 7.04	3 53.94	18 33 46.5	14 36.2	133.33	15 45.39
	31	Mi	6 12.27	8 41 0.98	3 53.35	18 19 10.3	14 54.3	133.16	15 45.50
Aug.	1	Do	6 9.07	8 44 54.33	3 52.76	18 4 16.0	15 12.0	132.98	15 45.62
	2	Fr	6 5.27	8 48 47.09	3 52.16	17 49 4.0	15 29.5	132.81	15 45.75
	3	Sa	+6 0.87	8 52 39.25	3 51.57	+17 33 34.5	15 46.6	132.63	15 45.87
	4	So	5 55.89	8 56 30.82	3 50.99	17 17 47.9	16 3.5	132.46	15 46.00
	5	Mo	5 50.32	9 0 21.81	3 50.41	17 1 44.4	16 20.2	132.28	15 46.13
	6	Di	5 44.17	9 4 12.22	3 49.83	16 45 24.2	16 36.6	132.11	15 46.26
	7	Mi	5 37.45	9 8 2.05	3 49.26	16 28 47.6	16 52.6	131.94	15 46.40
	8	Do	+5 30.16	9 11 51.31	3 48.70	+16 11 55.0	17 8.3	131.77	15 46.55
	9	Fr	5 22.30	9 15 40.01	3 48.13	15 54 46.7	17 23.8	131.60	15 46.70
	10	Sa	5 13.87	9 19 28.14	3 47.57	15 37 22.9	17 39.0	131.43	15 46.85
	11	So	5 4.88	9 23 15.71	3 47.01	15 19 43.9	17 53.7	131.26	15 47.01
	12	Mo	4 55.34	9 27 2.72	3 46.45	15 1 50.2	18 8.2	131.10	15 47.17
	13	Di	+4 45.24	9 30 49.17	3 45.90	+14 43 42.0	18 22.3	130.94	15 47.34
	14	Mi	4 34.58	9 34 35.07	3 45.35	14 25 19.7	18 36.0	130.78	15 47.51
	15	Do	4 23.37	9 38 20.42	3 44.80	14 6 43.7	18 49.5	130.62	15 47.69
	16	Fr	4 11.62	9 42 5.22	3 44.26	13 47 54.2	19 2.6	130.47	15 47.87
	17	Sa	3 59.32	9 45 49.48		13 28 51.6		130.32	15 48.05

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
		h m s	° ′ ″	′ ″	″				
Juli 9	191	7 8 4.44	106 50 0.16	57 12.96	−0.24	0.0071948	101	−27	0
10	192	7 12 1.00	107 47 13.12	57 13.43	−0.13	0.0071847	125	−24	−4
11	193	7 15 57.56	108 44 26.55	57 13.89	−0.04	0.0071722	150	−17	−7
12	194	7 19 54.11	109 41 40.44	57 14.34	+0.03	0.0071572	177	−7	−9
13	195	7 23 50.67	110 38 54.78	57 14.74	+0.08	0.0071395	203	+3	−8
14	196	7 27 47.23	111 36 9.52	57 15.09	+0.10	0.0071192	230	+13	−6
15	197	7 31 43.79	112 33 24.61	57 15.37	+0.08	0.0070962	257	+19	−3
16	198	7 35 40.35	113 30 39.98	57 15.63	+0.03	0.0070705	283	+22	+1
17	199	7 39 36.91	114 27 55.61	57 15.86	−0.06	0.0070422	308	+20	+5
18	200	7 43 33.46	115 25 11.47	57 16.07	−0.17	0.0070114	332	+15	+8
19	201	7 47 30.02	116 22 27.54	57 16.28	−0.29	0.0069782	355	+7	+9
20	202	7 51 26.58	117 19 43.82	57 16.51	−0.42	0.0069427	375	−1	+8
21	203	7 55 23.14	118 17 0.33	57 16.79	−0.54	0.0069052	395	−8	+6
22	204	7 59 19.69	119 14 17.12	57 17.12	−0.66	0.0068657	412	−13	+2
23	205	8 3 16.25	120 11 34.24	57 17.50	−0.77	0.0068245	429	−13	−2
24	206	8 7 12.81	121 8 51.74	57 17.94	−0.86	0.0067816	446	−10	−5
25	207	8 11 9.36	122 6 9.68	57 18.46	−0.92	0.0067370	461	−4	−8
26	208	8 15 5.92	123 3 28.14	57 19.05	−0.96	0.0066909	475	+4	−9
27	209	8 19 2.48	124 0 47.19	57 19.72	−0.97	0.0066434	489	+12	−8
28	210	8 22 59.04	124 58 6.91	57 20.46	−0.96	0.0065945	502	+17	−5
29	211	8 26 55.59	125 55 27.37	57 21.29	−0.92	0.0065443	516	+20	−2
30	212	8 30 52.15	126 52 48.66	57 22.19	−0.86	0.0064927	530	+18	+2
31	213	8 34 48.71	127 50 10.85	57 23.17	−0.77	0.0064397	544	+12	+6
Aug. 1	214	8 38 45.26	128 47 34.02	57 24.21	−0.66	0.0063853	558	+3	+8
2	215	8 42 41.82	129 44 58.23	57 25.33	−0.54	0.0063295	572	−7	+9
3	216	8 46 38.38	130 42 23.56	57 26.51	−0.41	0.0062723	587	−16	+8
4	217	8 50 34.93	131 39 50.07	57 27.76	−0.27	0.0062136	603	−24	+5
5	218	8 54 31.49	132 37 17.83	57 29.07	−0.14	0.0061533	620	−27	+1
6	219	8 58 28.05	133 34 46.90	57 30.42	−0.02	0.0060913	638	−25	−3
7	220	9 2 24.60	134 32 17.32	57 31.78	+0.08	0.0060275	657	−20	−6
8	221	9 6 21.16	135 29 49.10	57 33.14	+0.16	0.0059618	678	−11	−8
9	222	9 10 17.71	136 27 22.24	57 34.50	+0.21	0.0058940	699	−1	−9
10	223	9 14 14.27	137 24 56.74	57 35.84	+0.22	0.0058241	721	+9	−7
11	224	9 18 10.83	138 22 32.58	57 37.14	+0.20	0.0057520	745	+17	−4
12	225	9 22 7.38	139 20 9.72	57 38.39	+0.16	0.0056775	768	+21	0
13	226	9 26 3.94	140 17 48.11	57 39.58	+0.09	0.0056007	791	+21	+4
14	227	9 30 0.49	141 15 27.69	57 40.70	−0.01	0.0055216	814	+17	+7
15	228	9 33 57.05	142 13 8.39	57 41.79	−0.13	0.0054402	835	+10	+9
16	229	9 37 53.60	143 10 50.18	57 42.86	−0.26	0.0053567	855	+2	+9
17	230	9 41 50.16	144 8 33.04		−0.39	0.0052712		−7	+7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Aug. 16	Fr	+4 11.62	9 42 5.22	3 44.26	+13 47 54.2	19 2.6	130.47	15 47.87
17	Sa	3 59.32	9 45 49.48	3 43.73	13 28 51.6	19 15.4	130.32	15 48.06
18	So	3 46.50	9 49 33.21	3 43.22	13 9 36.2	19 27.8	130.17	15 48.25
19	Mo	3 33.16	9 53 16.43	3 42.71	12 50 8.4	19 39.9	130.03	15 48.44
20	Di	3 19.31	9 56 59.14	3 42.22	12 30 28.5	19 51.6	129.89	15 48.64
21	Mi	+3 4.97	10 0 41.36	3 41.73	+12 10 36.9	20 3.1	129.75	15 48.84
22	Do	2 50.15	10 4 23.09	3 41.27	11 50 33.8	20 14.3	129.62	15 49.04
23	Fr	2 34.87	10 8 4.36	3 40.82	11 30 19.5	20 25.1	129.49	15 49.25
24	Sa	2 19.13	10 11 45.18	3 40.39	11 9 54.4	20 35.7	129.36	15 49.45
25	So	2 2.96	10 15 25.57	3 39.97	10 49 18.7	20 45.9	129.24	15 49.66
26	Mo	+1 46.38	10 19 5.54	3 39.58	+10 28 32.8	20 55.8	129.12	15 49.88
27	Di	1 29.40	10 22 45.12	3 39.19	10 7 37.0	21 5.5	129.01	15 50.09
28	Mi	1 12.04	10 26 24.31	3 38.83	9 46 31.5	21 14.8	128.90	15 50.31
29	Do	0 54.32	10 30 3.14	3 38.49	9 25 16.7	21 23.8	128.80	15 50.53
30	Fr	0 36.26	10 33 41.63	3 38.17	9 3 52.9	21 32.6	128.70	15 50.75
31	Sa	+0 17.87	10 37 19.80	3 37.86	+ 8 42 20.3	21 41.0	128.60	15 50.97
Sept. 1	So	−0 0.83	10 40 57.66	3 37.56	8 20 39.3	21 49.2	128.51	15 51.19
2	Mo	0 19.82	10 44 35.22	3 37.30	7 58 50.1	21 57.0	128.42	15 51.41
3	Di	0 39.07	10 48 12.52	3 37.06	7 36 53.1	22 4.5	128.34	15 51.64
4	Mi	0 58.56	10 51 49.58	3 36.83	7 14 48.6	22 11.8	128.26	15 51.87
5	Do	−1 18.28	10 55 26.41	3 36.62	+ 6 52 36.8	22 18.7	128.19	15 52.10
6	Fr	1 38.22	10 59 3.03	3 36.42	6 30 18.1	22 25.3	128.12	15 52.33
7	Sa	1 58.36	11 2 39.45	3 36.24	6 7 52.8	22 31.5	128.06	15 52.57
8	So	2 18.67	11 6 15.69	3 36.08	5 45 21.3	22 37.3	128.00	15 52.81
9	Mo	2 39.14	11 9 51.77	3 35.93	5 22 44.0	22 42.9	127.95	15 53.05
10	Di	−2 59.76	11 13 27.70	3 35.80	+ 5 0 1.1	22 48.1	127.91	15 53.30
11	Mi	3 20.52	11 17 3.50	3 35.68	4 37 13.0	22 52.9	127.87	15 53.55
12	Do	3 41.40	11 20 39.18	3 35.57	4 14 20.1	22 57.3	127.84	15 53.80
13	Fr	4 2.38	11 24 14.75	3 35.48	3 51 22.8	23 1.4	127.81	15 54.06
14	Sa	4 23.45	11 27 50.23	3 35.42	3 28 21.4	23 5.1	127.79	15 54.32
15	So	−4 44.59	11 31 25.65	3 35.36	+ 3 5 16.3	23 8.5	127.78	15 54.58
16	Mo	5 5.78	11 35 1.01	3 35.32	2 42 7.8	23 11.4	127.77	15 54.85
17	Di	5 27.01	11 38 36.33	3 35.31	2 18 56.4	23 14.1	127.77	15 55.11
18	Mi	5 48.26	11 42 11.64	3 35.31	1 55 42.3	23 16.5	127.77	15 55.38
19	Do	6 9.50	11 45 46.95	3 35.34	1 32 25.8	23 18.5	127.78	15 55.65
20	Fr	−6 30.71	11 49 22.29	3 35.39	+ 1 9 7.3	23 20.2	127.80	15 55.92
21	Sa	6 51.88	11 52 57.68	3 35.45	0 45 47.1	23 21.5	127.82	15 56.20
22	So	7 12.98	11 56 33.13	3 35.54	+ 0 22 25.6	23 22.5	127.85	15 56.47
23	Mo	7 33.99	12 0 8.67	3 35.66	− 0 0 56.9	23 23.3	127.88	15 56.74
24	Di	7 54.88	12 3 44.33		0 24 20.2		127.92	15 57.02

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. (in 0".01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Aug.	16	229	9 37 53.60	143 10 50.18	57 42.86	−0.26	0.0053567	855	+ 2	+9
	17	230	9 41 50.16	144 8 33.04	57 43.93	−0.39	0.0052712	873	− 7	+7
	18	231	9 45 46.72	145 6 16.97	57 45.01	−0.51	0.0051839	890	−12	+4
	19	232	9 49 43.27	146 4 1.98	57 46.11	−0.62	0.0050949	905	−13	0
	20	233	9 53 39.83	147 1 48.09	57 47.25	−0.72	0.0050044	919	−12	−4
	21	234	9 57 36.38	147 59 35.34	57 48.44	−0.79	0.0049125	932	− 6	−7
	22	235	10 1 32.94	148 57 23.78	57 49.68	−0.83	0.0048193	943	+ 2	−9
	23	236	10 5 29.49	149 55 13.46	57 50.97	−0.84	0.0047250	953	+ 9	−8
	24	237	10 9 26.05	150 53 4.43	57 52.32	−0.82	0.0046297	963	+16	−6
	25	238	10 13 22.60	151 50 56.75	57 53.74	−0.77	0.0045334	971	+19	−3
	26	239	10 17 19.16	152 48 50.49	57 55.22	−0.70	0.0044363	980	+19	+1
	27	240	10 21 15.71	153 46 45.71	57 56.78	−0.61	0.0043383	988	+14	+5
	28	241	10 25 12.26	154 44 42.49	57 58.41	−0.50	0.0042395	995	+ 7	+8
	29	242	10 29 8.82	155 42 40.90	58 0.10	−0.38	0.0041400	1002	− 3	+9
	30	243	10 33 5.37	156 40 41.00	58 1.86	−0.25	0.0040398	1009	−14	+8
	31	244	10 37 1.93	157 38 42.86	58 3.69	−0.11	0.0039389	1017	−22	+6
Sept.	1	245	10 40 58.48	158 36 46.55	58 5.59	+0.03	0.0038372	1026	−27	+2
	2	246	10 44 55.04	159 34 52.14	58 7.55	+0.16	0.0037346	1034	−27	−2
	3	247	10 48 51.59	160 32 59.69	58 9.55	+0.27	0.0036312	1044	−22	−5
	4	248	10 52 48.14	161 31 9.24	58 11.58	+0.36	0.0035268	1054	−14	−8
	5	249	10 56 44.70	162 29 20.82	58 13.63	+0.41	0.0034214	1066	− 4	−9
	6	250	11 0 41.25	163 27 34.45	58 15.69	+0.44	0.0033148	1079	+ 6	−8
	7	251	11 4 37.81	164 25 50.14	58 17.73	+0.43	0.0032069	1093	+14	−5
	8	252	11 8 34.36	165 24 7.87	58 19.74	+0.39	0.0030976	1108	+20	−2
	9	253	11 12 30.91	166 22 27.61	58 21.69	+0.32	0.0029868	1123	+21	+2
	10	254	11 16 27.47	167 20 49.30	58 23.58	+0.22	0.0028745	1139	+18	+6
	11	255	11 20 24.02	168 19 12.88	58 25.41	+0.10	0.0027606	1154	+12	+8
	12	256	11 24 20.58	169 17 38.29	58 27.18	−0.02	0.0026452	1169	+ 4	+9
	13	257	11 28 17.13	170 16 5.47	58 28.89	−0.15	0.0025283	1183	− 4	+8
	14	258	11 32 13.68	171 14 34.36	58 30.57	−0.27	0.0024100	1195	−10	+5
	15	259	11 36 10.24	172 13 4.93	58 32.23	−0.38	0.0022905	1206	−13	+1
	16	260	11 40 6.79	173 11 37.16	58 33.88	−0.47	0.0021699	1215	−12	−3
	17	261	11 44 3.34	174 10 11.04	58 35.53	−0.55	0.0020484	1222	− 8	−6
	18	262	11 47 59.90	175 8 46.57	58 37.19	−0.60	0.0019262	1228	− 1	−8
	19	263	11 51 56.45	176 7 23.76	58 38.88	−0.62	0.0018034	1233	+ 7	−9
	20	264	11 55 53.01	177 6 2.64	58 40.61	−0.61	0.0016801	1237	+15	−7
	21	265	11 59 49.56	178 4 43.25	58 42.38	−0.57	0.0015564	1239	+19	−4
	22	266	12 3 46.11	179 3 25.63	58 44.18	−0.51	0.0014325	1239	+20	0
	23	267	12 7 42.67	180 2 9.81	58 46.02	−0.43	0.0013086	1240	+17	+4
	24	268	12 11 39.22	181 0 55.83		−0.33	0.0011846		+10	+7

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 23	Mo	— 7 33.99	12 0 8.67	3 35.66	— 0 0 56.9	23 23.3	127.88	15 56.74
24	Di	7 54.88	12 3 44.33	3 35.80	0 24 20.2	23 23.7	127.92	15 57.02
25	Mi	8 15.64	12 7 20.13	3 35.96	0 47 43.9	23 23.7	127.97	15 57.29
26	Do	8 36.24	12 10 56.09	3 36.14	1 11 7.6	23 23.4	128.02	15 57.56
27	Fr	8 56.65	12 14 32.23	3 36.35	1 34 31.0	23 22.8	128.08	15 57.83
28	Sa	— 9 16.85	12 18 8.58	3 36.58	— 1 57 53.8	23 21.9	128.14	15 58.11
29	So	9 36.82	12 21 45.16	3 36.84	2 21 15.7	23 20.7	128.21	15 58.38
30	Mo	9 56.54	12 25 22.00	3 37.11	2 44 36.4	23 19.2	128.29	15 58.65
Okt. 1	Di	10 15.99	12 28 59.11	3 37.42	3 7 55.6	23 17.3	128.37	15 58.92
2	Mi	10 35.12	12 32 36.53	3 37.74	3 31 12.9	23 15.1	128.46	15 59.19
3	Do	—10 53.93	12 36 14.27	3 38.08	— 3 54 28.0	23 12.5	128.55	15 59.46
4	Fr	11 12.41	12 39 52.35	3 38.45	4 17 40.5	23 9.6	128.65	15 59.73
5	Sa	11 30.51	12 43 30.80	3 38.84	4 40 50.1	23 6.3	128.76	16 0.00
6	So	11 48.22	12 47 9.64	3 39.24	5 3 56.4	23 2.6	128.87	16 0.27
7	Mo	12 5.53	12 50 48.88	3 39.66	5 26 59.0	22 58.6	128.98	16 0.55
8	Di	—12 22.43	12 54 28.54	3 40.09	— 5 49 57.6	22 54.1	129.10	16 0.82
9	Mi	12 38.90	12 58 8.63	3 40.54	6 12 51.7	22 49.2	129.23	16 1.09
10	Do	12 54.91	13 1 49.17	3 41.01	6 35 40.9	22 44.0	129.37	16 1.37
11	Fr	13 10.45	13 5 30.18	3 41.50	6 58 24.9	22 38.3	129.51	16 1.65
12	Sa	13 25.51	13 9 11.68	3 41.99	7 21 3.2	22 32.2	129.65	16 1.93
13	So	—13 40.07	13 12 53.67	3 42.50	— 7 43 35.4	22 25.7	129.80	16 2.20
14	Mo	13 54.12	13 16 36.17	3 43.03	8 6 1.1	22 18.8	129.96	16 2.48
15	Di	14 7.65	13 20 19.20	3 43.57	8 28 19.9	22 11.5	130.12	16 2.76
16	Mi	14 20.64	13 24 2.77	3 44.12	8 50 31.4	22 3.8	130.29	16 3.04
17	Do	14 33.07	13 27 46.89	3 44.71	9 12 35.2	21 55.8	130.46	16 3.32
18	Fr	—14 44.92	13 31 31.60	3 45.30	— 9 34 31.0	21 47.3	130.64	16 3.60
19	Sa	14 56.17	13 35 16.90	3 45.91	9 56 18.3	21 38.5	130.82	16 3.88
20	So	15 6.81	13 39 2.81	3 46.54	10 17 56.8	21 29.3	131.01	16 4.15
21	Mo	15 16.82	13 42 49.35	3 47.19	10 39 26.1	21 19.8	131.20	16 4.43
22	Di	15 26.19	13 46 36.54	3 47.85	11 0 45.9	21 9.8	131.39	16 4.70
23	Mi	—15 34.90	13 50 24.39	3 48.53	—11 21 55.7	20 59.5	131.59	16 4.97
24	Do	15 42.93	13 54 12.92	3 49.22	11 42 55.2	20 48.7	131.79	16 5.24
25	Fr	15 50.26	13 58 2.14	3 49.93	12 3 43.9	20 37.7	131.99	16 5.50
26	Sa	15 56.88	14 1 52.07	3 50.67	12 24 21.6	20 26.2	132.20	16 5.77
27	So	16 2.77	14 5 42.74	3 51.42	12 44 47.8	20 14.4	132.41	16 6.03
28	Mo	—16 7.91	14 9 34.16	3 52.18	—13 5 2.2	20 2.2	132.63	16 6.28
29	Di	16 12.28	14 13 26.34	3 52.96	13 25 4.4	19 49.6	132.85	16 6.54
30	Mi	16 15.87	14 17 19.30	3 53.76	13 44 54.0	19 36.6	133.07	16 6.79
31	Do	16 18.67	14 21 13.06	3 54.56	14 4 30.6	19 23.2	133.29	16 7.03
Nov. 1	Fr	16 20.67	14 25 7.62		14 23 53.8		133.52	16 7.28

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0".01 dλ	dε
Sept. 23	267	12h 7m 42s.67	180° 2′ 9″.81	58′ 46″.02	−0″.43	0.0013086	1240	+17	+4
24	268	12 11 39.22	181 0 55.83	58 47.92	−0.33	0.0011846	1239	+10	+7
25	269	12 15 35.77	181 59 43.75	58 49.87	−0.21	0.0010607	1238	+ 1	+9
26	270	12 19 32.33	182 58 33.62	58 51.87	−0.07	0.0009369	1236	−10	+9
27	271	12 23 28.88	183 57 25.49	58 53.94	+0.07	0.0008133	1233	−19	+7
28	272	12 27 25.43	184 56 19.43	58 56.07	+0.21	0.0006900	1231	−26	+4
29	273	12 31 21.99	185 55 15.50	58 58.26	+0.35	0.0005669	1228	−27	0
30	274	12 35 18.54	186 54 13.76	59 0.52	+0.47	0.0004441	1226	−25	−4
Okt. 1	275	12 39 15.10	187 53 14.28	59 2.83	+0.56	0.0003215	1224	−18	−7
2	276	12 43 11.65	188 52 17.11	59 5.16	+0.62	0.0001991	1224	− 8	−9
3	277	12 47 8.20	189 51 22.27	59 7.51	+0.65	0.0000767	1225	+ 2	−8
4	278	12 51 4.76	190 50 29.78	59 9.87	+0.66	9.9999542	1226	+12	−6
5	279	12 55 1.31	191 49 39.65	59 12.22	+0.64	9.9998316	1228	+18	−3
6	280	12 58 57.86	192 48 51.87	59 14.53	+0.58	9.9997088	1232	+21	+1
7	281	13 2 54.42	193 48 6.40	59 16.80	+0.49	9.9995856	1237	+19	+5
8	282	13 6 50.97	194 47 23.20	59 19.01	+0.38	9.9994619	1241	+13	+8
9	283	13 10 47.53	195 46 42.21	59 21.15	+0.25	9.9993378	1246	+ 6	+9
10	284	13 14 44.08	196 46 3.36	59 23.21	+0.12	9.9992132	1251	− 2	+8
11	285	13 18 40.63	197 45 26.57	59 25.21	−0.01	9.9990881	1256	− 9	+6
12	286	13 22 37.19	198 44 51.78	59 27.14	−0.13	9.9989625	1259	−13	+2
13	287	13 26 33.74	199 44 18.92	59 29.01	−0.23	9.9988366	1261	−13	−2
14	288	13 30 30.30	200 43 47.93	59 30.83	−0.31	9.9987105	1262	−10	−5
15	289	13 34 26.85	201 43 18.76	59 32.62	−0.37	9.9985843	1262	− 3	−8
16	290	13 38 23.41	202 42 51.38	59 34.38	−0.40	9.9984581	1259	+ 5	−9
17	291	13 42 19.96	203 42 25.76	59 36.13	−0.40	9.9983322	1255	+13	−8
18	292	13 46 16.51	204 42 1.89	59 37.89	−0.37	9.9982067	1250	+18	−5
19	293	13 50 13.07	205 41 39.78	59 39.66	−0.32	9.9980817	1243	+21	−2
20	294	13 54 9.62	206 41 19.44	59 41.43	−0.24	9.9979574	1236	+19	+2
21	295	13 58 6.18	207 41 0.87	59 43.22	−0.14	9.9978338	1227	+13	+6
22	296	14 2 2.73	208 40 44.09	59 45.02	−0.02	9.9977111	1217	+ 4	+8
23	297	14 5 59.29	209 40 29.11	59 46.85	+0.11	9.9975894	1205	− 7	+9
24	298	14 9 55.84	210 40 15.96	59 48.72	+0.25	9.9974689	1193	−17	+8
25	299	14 13 52.40	211 40 4.68	59 50.64	+0.39	9.9973496	1180	−23	+5
26	300	14 17 48.95	212 39 55.32	59 52.61	+0.53	9.9972316	1166	−27	+1
27	301	14 21 45.51	213 39 47.93	59 54.64	+0.65	9.9971150	1152	−26	−3
28	302	14 25 42.06	214 39 42.57	59 56.70	+0.75	9.9969998	1138	−20	−6
29	303	14 29 38.62	215 39 39.27	59 58.81	+0.82	9.9968860	1125	−12	−8
30	304	14 33 35.18	216 39 38.08	60 0.97	+0.87	9.9967735	1112	− 2	−9
31	305	14 37 31.73	217 39 39.05	60 3.15	+0.89	9.9966623	1100	+ 9	−7
Nov. 1	306	14 41 28.29	218 39 42.20		+0.88	9.9965523		+16	−4

Mittlerer Berliner Mittag.

Monats- und Wochentag			Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
			m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt.	31	Do	—16 18.67	14 21 13.06	3 54.56	—14 4 30.6	19 23.2	133.29	16 7.03
Nov.	1	Fr	16 20.67	14 25 7.62	3 55.38	14 23 53.8	19 9.5	133.52	16 7.28
	2	Sa	16 21.85	14 29 3.00	3 56.20	14 43 3.3	18 55.3	133.75	16 7.52
	3	So	16 22.20	14 32 59.20	3 57.04	15 1 58.6	18 40.7	133.98	16 7.76
	4	Mo	16 21.71	14 36 56.24	3 57.88	15 20 39.3	18 25.6	134.21	16 8.00
	5	Di	—16 20.38	14 40 54.12	3 58.73	—15 39 4.9	18 10.2	134.44	16 8.24
	6	Mi	16 18.21	14 44 52.85	3 59.57	15 57 15.1	17 54.3	134.68	16 8.47
	7	Do	16 15.20	14 48 52.42	4 0.42	16 15 9.4	17 37.9	134.91	16 8.71
	8	Fr	16 11.34	14 52 52.84	4 1.27	16 32 47.3	17 21.1	135.15	16 8.94
	9	Sa	16 6.63	14 56 54.11	4 2.11	16 50 8.4	17 4.0	135.39	16 9.17
	10	So	—16 1.07	15 0 56.22	4 2.96	—17 7 12.4	16 46.4	135.63	16 9.40
	11	Mo	15 54.67	15 4 59.18	4 3.80	17 23 58.8	16 28.3	135.87	16 9.63
	12	Di	15 47.43	15 9 2.98	4 4.64	17 40 27.1	16 9.9	136.11	16 9.86
	13	Mi	15 39.34	15 13 7.62	4 5.48	17 56 37.0	15 51.0	136.35	16 10.08
	14	Do	15 30.42	15 17 13.10	4 6.31	18 12 28.0	15 31.8	136.59	16 10.31
	15	Fr	—15 20.67	15 21 19.41	4 7.13	—18 27 59.8	15 12.1	136.83	16 10.53
	16	Sa	15 10.09	15 25 26.54	4 7.95	18 43 11.9	14 52.1	137.06	16 10.74
	17	So	14 58.70	15 29 34.49	4 8.77	18 58 4.0	14 31.7	137.30	16 10.96
	18	Mo	14 46.49	15 33 43.26	4 9.59	19 12 35.7	14 11.0	137.53	16 11.17
	19	Di	14 33.46	15 37 52.85	4 10.40	19 26 46.7	13 49.9	137.76	16 11.37
	20	Mi	—14 19.62	15 42 3.25	4 11.20	—19 40 36.6	13 28.4	137.98	16 11.58
	21	Do	14 4.98	15 46 14.45	4 11.98	19 54 5.0	13 6.5	138.20	16 11.78
	22	Fr	13 49.55	15 50 26.43	4 12.76	20 7 11.5	12 44.4	138.42	16 11.97
	23	Sa	13 33.34	15 54 39.19	4 13.54	20 19 55.9	12 21.9	138.64	16 12.16
	24	So	13 16.36	15 58 52.73	4 14.31	20 32 17.8	11 59.1	138.85	16 12.34
	25	Mo	—12 58.61	16 3 7.04	4 15.07	—20 44 16.9	11 36.0	139.06	16 12.52
	26	Di	12 40.10	16 7 22.11	4 15.82	20 55 52.9	11 12.5	139.26	16 12.69
	27	Mi	12 20.84	16 11 37.93	4 16.55	21 7 5.4	10 48.7	139.46	16 12.86
	28	Do	12 0.85	16 15 54.48	4 17.28	21 17 54.1	10 24.7	139.66	16 13.02
	29	Fr	11 40.13	16 20 11.76	4 17.98	21 28 18.8	10 0.3	139.85	16 13.18
	30	Sa	—11 18.70	16 24 29.74	4 18.67	—21 38 19.1	9 35.6	140.03	16 13.34
Dez.	1	So	10 56.59	16 28 48.41	4 19.34	21 47 54.7	9 10.6	140.21	16 13.49
	2	Mo	10 33.81	16 33 7.75	4 19.99	21 57 5.3	8 45.3	140.38	16 13.63
	3	Di	10 10.38	16 37 27.74	4 20.61	22 5 50.6	8 19.8	140.55	16 13.77
	4	Mi	9 46.33	16 41 48.35	4 21.21	22 14 10.4	7 53.9	140.71	16 13.91
	5	Do	— 9 21.68	16 46 9.56	4 21.78	—22 22 4.3	7 27.8	140.86	16 14.04
	6	Fr	8 56.46	16 50 31.34	4 22.31	22 29 32.1	7 1.5	141.01	16 14.17
	7	Sa	8 30.70	16 54 53.65	4 22.82	22 36 33.6	6 34.9	141.15	16 14.30
	8	So	8 4.44	16 59 16.47	4 23.29	22 43 8.5	6 8.1	141.28	16 14.42
	9	Mo	7 37.71	17 3 39.76		22 49 16.6		141.40	16 14.54

Mittlerer Berliner Mittag.

Monats- und Jahrestag			Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 dλ	dε
			h m s	° ′ ″	′ ″	″				
Okt.	31	305	14 37 31.73	217 39 39.05	60 3.15	+0.89	9.9966623	1100	+ 9	−7
Nov.	1	306	14 41 28.29	218 39 42.20	60 5.33	+0.88	9.9965523	1089	+16	−4
	2	307	14 45 24.84	219 39 47.53	60 7.48	+0.83	9.9964434	1080	+20	0
	3	308	14 49 21.40	220 39 55.01	60 9.61	+0.75	9.9963354	1071	+20	+4
	4	309	14 53 17.95	221 40 4.62	60 11.70	+0.64	9.9962283	1063	+16	+7
	5	310	14 57 14.51	222 40 16.32	60 13.74	+0.52	9.9961220	1057	+ 8	+9
	6	311	15 1 11.07	223 40 30.06	60 15.70	+0.39	9.9960163	1050	0	+9
	7	312	15 5 7.62	224 40 45.76	60 17.57	+0.26	9.9959113	1044	− 7	+7
	8	313	15 9 4.18	225 41 3.33	60 19.36	+0.14	9.9958069	1038	−12	+4
	9	314	15 13 0.74	226 41 22.69	60 21.07	+0.03	9.9957031	1032	−13	0
	10	315	15 16 57.29	227 41 43.76	60 22.69	−0.06	9.9955999	1025	−11	−4
	11	316	15 20 53.85	228 42 6.45	60 24.22	−0.13	9.9954974	1017	− 6	−7
	12	317	15 24 50.41	229 42 30.67	60 25.69	−0.17	9.9953957	1007	+ 2	−9
	13	318	15 28 46.96	230 42 56.36	60 27.11	−0.18	9.9952950	997	+10	−8
	14	319	15 32 43.52	231 43 23.47	60 28.49	−0.16	9.9951953	985	+17	−6
	15	320	15 36 40.08	232 43 51.96	60 29.82	−0.12	9.9950968	972	+20	−3
	16	321	15 40 36.63	233 44 21.78	60 31.13	−0.04	9.9949996	958	+20	+1
	17	322	15 44 33.19	234 44 52.91	60 32.42	+0.06	9.9949038	942	+15	+5
	18	323	15 48 29.75	235 45 25.33	60 33.69	+0.16	9.9948096	925	+ 7	+8
	19	324	15 52 26.31	236 45 59.02	60 34.94	+0.27	9.9947171	907	− 3	+9
	20	325	15 56 22.86	237 46 33.96	60 36.18	+0.40	9.9946264	887	−13	+8
	21	326	16 0 19.42	238 47 10.14	60 37.43	+0.53	9.9945377	866	−21	+6
	22	327	16 4 15.98	239 47 47.57	60 38.71	+0.66	9.9944511	844	−27	+2
	23	328	16 8 12.54	240 48 26.28	60 40.02	+0.78	9.9943667	822	−27	−2
	24	329	16 12 9.09	241 49 6.30	60 41.37	+0.88	9.9942845	798	−23	−5
	25	330	16 16 5.65	242 49 47.67	60 42.76	+0.96	9.9942047	774	−15	−8
	26	331	16 20 2.21	243 50 30.43	60 44.18	+1.01	9.9941273	750	− 5	−9
	27	332	16 23 58.77	244 51 14.61	60 45.64	+1.02	9.9940523	727	+ 5	−8
	28	333	16 27 55.33	245 52 0.25	60 47.13	+1.01	9.9939796	705	+13	−5
	29	334	16 31 51.89	246 52 47.38	60 48.63	+0.97	9.9939091	684	+19	−2
	30	335	16 35 48.44	247 53 36.01	60 50.12	+0.90	9.9938407	663	+20	+2
Dez.	1	336	16 39 45.00	248 54 26.13	60 51.59	+0.80	9.9937744	644	+17	+6
	2	337	16 43 41.56	249 55 17.72	60 53.01	+0.68	9.9937100	626	+10	+8
	3	338	16 47 38.12	250 56 10.73	60 54.37	+0.54	9.9936474	610	+ 3	+9
	4	339	16 51 34.68	251 57 5.10	60 55.67	+0.41	9.9935864	594	− 5	+8
	5	340	16 55 31.24	252 58 0.77	60 56.88	+0.29	9.9935270	579	−11	+5
	6	341	16 59 27.80	253 58 57.65	60 57.99	+0.18	9.9934691	565	−13	+1
	7	342	17 3 24.36	254 59 55.64	60 59.02	+0.09	9.9934126	550	−12	−3
	8	343	17 7 20.91	256 0 54.66	60 59.96	+0.02	9.9933576	536	− 8	−6
	9	344	17 11 17.47	257 1 54.62		−0.03	9.9933040		0	−8

Mittlerer Berliner Mittag.

Monats- und Wochentag		Zeitgleichung M. Zt. — W. Zt.	Scheinb. AR.	Diff.	Scheinb. Dekl.	Diff.	Durchg.-Dauer St.-Zt.	Halbm.
		m s	h m s	m s	° ′ ″	′ ″	s	′ ″
Dez. 8	So	—8 4.44	16 59 16.47	4 23.29	—22 43 8.5	6 8.1	141.28	16 14.42
9	Mo	7 37.71	17 3 39.76	4 23.73	22 49 16.6	5 41.0	141.40	16 14.54
10	Di	7 10.54	17 8 3.49	4 24.15	22 54 57.6	5 13.8	141.52	16 14.66
11	Mi	6 42.96	17 12 27.64	4 24.52	23 0 11.4	4 46.4	141.63	16 14.77
12	Do	6 15.00	17 16 52.16	4 24.86	23 4 57.8	4 18.8	141.73	16 14.88
13	Fr	—5 46.69	17 21 17.02	4 25.17	—23 9 16.6	3 51.2	141.82	16 14.99
14	Sa	5 18.08	17 25 42.19	4 25.45	23 13 7.8	3 23.4	141.91	16 15.09
15	So	4 49.19	17 30 7.64	4 25.68	23 16 31.2	2 55.5	141.99	16 15.19
16	Mo	4 20.06	17 34 33.32	4 25.89	23 19 26.7	2 27.4	142.05	16 15.28
17	Di	3 50.73	17 38 59.21	4 26.06	23 21 54.1	1 59.4	142.10	16 15.37
18	Mi	—3 21.23	17 43 25.27	4 26.20	—23 23 53.5	1 31.2	142.15	16 15.45
19	Do	2 51.59	17 47 51.47	4 26.31	23 25 24.7	1 3.0	142.19	16 15.53
20	Fr	2 21.84	17 52 17.78	4 26.38	23 26 27.7	0 34.8	142.22	16 15.60
21	Sa	1 52.02	17 56 44.16	4 26.43	23 27 2.5	0 6.6	142.24	16 15.67
22	So	1 22.15	18 1 10.59	4 26.44	23 27 9.1	0 21.7	142.25	16 15.73
23	Mo	—0 52.27	18 5 37.03	4 26.42	—23 26 47.4	0 49.9	142.25	16 15.78
24	Di	—0 22.41	18 10 3.45	4 26.38	23 25 57.5	1 18.1	142.24	16 15.83
25	Mi	+0 7.41	18 14 29.83	4 26.30	23 24 39.4	1 46.3	142.22	16 15.87
26	Do	0 37.15	18 18 56.13	4 26.20	23 22 53.1	2 14.5	142.20	16 15.91
27	Fr	1 6.79	18 23 22.33	4 26.07	23 20 38.6	2 42.6	142.17	16 15.94
28	Sa	+1 36.30	18 27 48.40	4 25.90	—23 17 56.0	3 10.6	142.12	16 15.96
29	So	2 5.65	18 32 14.30	4 25.71	23 14 45.4	3 38.6	142.06	16 15.98
30	Mo	2 34.80	18 36 40.01	4 25.49	23 11 6.8	4 6.4	142.00	16 15.99
31	Di	3 3.73	18 41 5.50	4 25.23	23 7 0.4	4 34.2	141.93	16 15.99
32	Mi	3 32.40	18 45 30.73	4 24.93	23 2 26.2	5 1.9	141.85	16 15.99
33	Do	+4 0.77	18 49 55.66		—22 57 24.3		141.76	16 15.99

		h
Frühlingsäquinoktium	März 20	12
Sommersolstitium	Juni 21	8
Herbstäquinoktium	Sept. 22	23
Wintersolstitium	Dez. 21	18

Mittlerer Berliner Mittag.

Monats- und Jahrestag		Sternzeit	Mittleres Äqu. 1912.0 Länge	Diff.	Breite	Lg. Rad. v.	Diff.	Nut. ☾ in 0″.01 $d\lambda$	$d\varepsilon$
Dez. 8	343	17ʰ 7ᵐ 20.91ˢ	256° 0′ 54.66″	60′ 59.96″	+0.02″	9.9933576	536	− 8	−6
9	344	17 11 17.47	257 1 54.62	61 0.80	−0.03	9.9933040	521	0	−8
10	345	17 15 14.03	258 2 55.42	61 1.55	−0.05	9.9932519	506	+ 8	−9
11	346	17 19 10.59	259 3 56.97	61 2.23	−0.05	9.9932013	490	+16	−7
12	347	17 23 7.15	260 4 59.20	61 2.83	−0.02	9.9931523	472	+20	−4
13	348	17 27 3.71	261 6 2.03	61 3.36	+0.04	9.9931051	454	+21	0
14	349	17 31 0.27	262 7 5.39	61 3.83	+0.12	9.9930597	436	+18	+4
15	350	17 34 56.83	263 8 9.22	61 4.25	+0.22	9.9930161	415	+11	+7
16	351	17 38 53.39	264 9 13.47	61 4.63	+0.34	9.9929746	394	+ 1	+9
17	352	17 42 49.94	265 10 18.10	61 4.96	+0.46	9.9929352	372	−10	+9
18	353	17 46 46.50	266 11 23.06	61 5.25	+0.58	9.9928980	348	−19	+7
19	354	17 50 43.06	267 12 28.31	61 5.52	+0.69	9.9928632	324	−25	+4
20	355	17 54 39.62	268 13 33.83	61 5.79	+0.79	9.9928308	297	−27	0
21	356	17 58 36.18	269 14 39.62	61 6.06	+0.89	9.9928011	270	−25	−4
22	357	18 2 32.74	270 15 45.68	61 6.35	+0.97	9.9927741	242	−17	−7
23	358	18 6 29.30	271 16 52.03	61 6.67	+1.02	9.9927499	213	− 9	−9
24	359	18 10 25.86	272 17 58.70	61 7.03	+1.04	9.9927286	183	+ 1	−8
25	360	18 14 22.42	273 19 5.73	61 7.44	+1.02	9.9927103	155	+11	−6
26	361	18 18 18.98	274 20 13.17	61 7.87	+0.97	9.9926948	126	+17	−3
27	362	18 22 15.54	275 21 21.04	61 8.33	+0.90	9.9926822	99	+20	+1
28	363	18 26 12.10	276 22 29.37	61 8.80	+0.80	9.9926723	73	+18	+5
29	364	18 30 8.66	277 23 38.17	61 9.26	+0.68	9.9926650	48	+13	+8
30	365	18 34 5.21	278 24 47.43	61 9.68	+0.55	9.9926602	24	+ 5	+9
31	366	18 38 1.77	279 25 57.11	61 10.05	+0.42	9.9926578	3	− 3	+8
32	367	18 41 58.33	280 27 7.16	61 10.36	+0.29	9.9926575	18	− 9	+6
33	368	18 45 54.89	281 28 17.52		+0.17	9.9926593		−13	+2

Perigäum	Jan. 3	0ʰ
Apogäum	Juli 4	12
Perigäum	Dez. 31	15

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912		X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
		+			—			—		
Jan.	1.0	0.165 6518	86109		0.889 1163	13915		0.385 6869	6039	
	1.5	0.174 2627	85971	—4715	0.887 7248	14603	— 777	0.385 0830	6336	— 338
	2.0	0.182 8598	85827		0.886 2645	15289		0.384 4494	6634	
	2.5	0.191 4425	85677	4699	0.884 7356	15973	855	0.383 7860	6931	371
	3.0	0.200 0102	85521		0.883 1383	16657		0.383 0929	7227	
	3.5	0.208 5623	85359	4681	0.881 4726	17339	931	0.382 3702	7523	404
	4.0	0.217 0982	85192		0.879 7387	18019		0.381 6179	7818	
	4.5	0.225 6174	85018	4663	0.877 9368	18698	1007	0.380 8361	8111	437
	5.0	0.234 1192	84837		0.876 0670	19377		0.380 0250	8405	
	5.5	0.242 6029		4643	0.874 1293		1083	0.379 1845		469
		+	84650		—	20053		—	8699	
	6.0	0.251 0679	84458		0.872 1240	20728		0.378 3146	8992	
	6.5	0.259 5137	84260	—4621	0.870 0512	21403	—1159	0.377 4154	9284	— 502
	7.0	0.267 9397	84055		0.867 9109	22077		0.376 4870	9575	
	7.5	0.276 3452	83844	4598	0.865 7032	22748	1234	0.375 5295	9866	535
	8.0	0.284 7296	83627		0.863 4284	23419		0.374 5429	10156	
	8.5	0.293 0923	83403	4574	0.861 0865	24088	1309	0.373 5273	10446	568
	9.0	0.301 4326	83173		0.858 6777	24757		0.372 4827	10736	
	9.5	0.309 7499	82936	4548	0.856 2020	25423	1383	0.371 4091	11024	601
	10.0	0.318 0435	82692		0.853 6597	26087		0.370 3067	11313	
	10.5	0.326 3127		4521	0.851 0510		1457	0.369 1754		633
		+	82443		—	26750		—	11600	
	11.0	0.334 5570	82186		0.848 3760	27412		0.368 0154	11887	
	11.5	0.342 7756	81924	—4492	0.845 6348	28072	—1531	0.366 8267	12173	— 665
	12.0	0.350 9680	81654		0.842 8276	28729		0.365 6094	12459	
	12.5	0.359 1334	81377	4462	0.839 9547	29384	1604	0.364 3635	12743	697
	13.0	0.367 2711	81094		0.837 0163	30037		0.363 0892	13027	
	13.5	0.375 3805	80804	4431	0.834 0126	30688	1677	0.361 7865	13310	729
	14.0	0.383 4609	80509		0.830 9438	31337		0.360 4555	13591	
	14.5	0.391 5118	80206	4398	0.827 8101	31984	1749	0.359 0964	13871	760
	15.0	0.399 5324	79896		0.824 6117	32628		0.357 7093	14152	
	15.5	0.407 5220		4364	0.821 3489		1820	0.356 2941		791
		+	79581		—	33270		—	14430	
	16.0	0.415 4801	79258		0.818 0219	33909		0.354 8511	14707	
	16.5	0.423 4059	78930	—4328	0.814 6310	34544	—1891	0.353 3804	14983	— 822
	17.0	0.431 2989	78594		0.811 1766	35178		0.351 8821	15259	
	17.5	0.439 1583	78252	4291	0.807 6588	35809	1961	0.350 3562	15532	853
	18.0	0.446 9835	77904		0.804 0779	36437		0.348 8030	15805	
	18.5	0.454 7739	77549	4253	0.800 4342	37062	2031	0.347 2225	16077	883
	19.0	0.462 5288	77188		0.796 7280	37683		0.345 6148	16347	
	19.5	0.470 2476	76821	4213	0.792 9597	38301	2100	0.343 9801	16615	913
	20.0	0.477 9297			0.789 1296			0.342 3186		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912		X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
		+			—			—		
Jan.	20.0	0.477 9297	76447		0.789 1296	38916		0.342 3186	16883	
	20.5	0.485 5744	76068	−4172	0.785 2380	39528	−2169	0.340 6303	17148	− 943
	21.0	0.493 1812	75683		0.781 2852	40136		0.338 9155	17413	
	21.5	0.500 7495	75292	4130	0.777 2716	40741	2237	0.337 1742	17675	973
	22.0	0.508 2787	74893		0.773 1975	41343		0.335 4067	17937	
	22.5	0.515 7680	74489	4086	0.769 0632	41940	2304	0.333 6130	18196	1002
	23.0	0.523 2169	74079		0.764 8692	42535		0.331 7934	18454	
	23.5	0.530 6248	73664	4041	0.760 6157	43126	2370	0.329 9480	18711	1031
	24.0	0.537 9912	73243		0.756 3031	43713		0.328 0769	18965	
	24.5	0.545 3155	72816	3995	0.751 9318	44295	2436	0.326 1804	19217	1059
		+			—			—		
	25.0	0.552 5971	72383		0.747 5023	44874		0.324 2587	19469	
	25.5	0.559 8354	71946	−3948	0.743 0149	45448	−2501	0.322 3118	19718	−1087
	26.0	0.567 0300	71502		0.738 4701	46019		0.320 3400	19966	
	26.5	0.574 1802	71053	3899	0.733 8682	46586	2565	0.318 3434	20212	1115
	27.0	0.581 2855	70600		0.729 2096	47148		0.316 3222	20455	
	27.5	0.588 3455	70141	3849	0.724 4948	47705	2628	0.314 2767	20697	1143
	28.0	0.595 3596	69678		0.719 7243	48260		0.312 2070	20938	
	28.5	0.602 3274	69210	3798	0.714 8983	48811	2691	0.310 1132	21176	1170
	29.0	0.609 2484	68736		0.710 0172	49357		0.307 9956	21412	
	29.5	0.616 1220	68258	3746	0.705 0815	49898	2753	0.305 8544	21647	1197
		+			—			—		
	30.0	0.622 9478	67774		0.700 0917	50436		0.303 6897	21880	
	30.5	0.629 7252	67287	−3693	0.695 0481	50970	−2813	0.301 5017	22111	−1223
	31.0	0.636 4539	66795		0.689 9511	51499		0.299 2906	22341	
	31.5	0.643 1334	66299	3639	0.684 8012	52025	2873	0.297 0565	22569	1249
Febr.	1.0	0.649 7633	65798		0.679 5987	52547		0.294 7996	22795	
	1.5	0.656 3431	65293	3583	0.674 3440	53065	2932	0.292 5201	23019	1275
	2.0	0.662 8724	64784		0.669 0375	53579		0.290 2182	23241	
	2.5	0.669 3508	64269	3526	0.663 6796	54088	2990	0.287 8941	23461	1300
	3.0	0.675 7777	63751		0.658 2708	54594		0.285 5480	23680	
	3.5	0.682 1528	63227	3469	0.652 8114	55096	3047	0.283 1800	23898	1325
		+			—			—		
	4.0	0.688 4755	62699		0.647 3018	55595		0.280 7902	24114	
	4.5	0.694 7454	62167	−3410	0.641 7423	56089	−3103	0.278 3788	24327	−1350
	5.0	0.700 9621	61631		0.636 1334	56579		0.275 9461	24540	
	5.5	0.707 1252	61089	3350	0.630 4755	57065	3159	0.273 4921	24751	1374
	6.0	0.713 2341	60544		0.624 7090	57547		0.271 0170	24961	
	6.5	0.719 2885	59994	3289	0.619 0143	58025	3214	0.268 5209	25167	1398
	7.0	0.725 2879	59439		0.613 2118	58499		0.266 0042	25373	
	7.5	0.731 2318	58879	3227	0.607 3619	58969	3267	0.263 4669	25577	1421
	8.0	0.737 1197			0.601 4650			0.260 9092		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Febr. 8.0	0.737 1197	58314		0.601 4650	59435		0.260 9092	25778	
8.5	0.742 9511	57745	−3164	0.595 5215	59895	−3319	0.258 3314	25978	−1444
9.0	0.748 7256	57172		0.589 5320	60352		0.255 7336	26177	
9.5	0.754 4428	56594	3100	0.583 4968	60803	3371	0.253 1159	26373	1466
10.0	0.760 1022	56011		0.577 4165	61250		0.250 4786	26568	
10.5	0.765 7033	55423	3035	0.571 2915	61693	3422	0.247 8218	26759	1488
11.0	0.771 2456	54831		0.565 1222	62131		0.245 1459	26949	
11.5	0.776 7287	54234	2969	0.558 9091	62563	3471	0.242 4510	27137	1509
12.0	0.782 1521	53634		0.552 6528	62992		0.239 7373	27323	
12.5	0.787 5155		2902	0.546 3536		3519	0.237 0050		1530
	+	53028		—	63415		—	27507	
13.0	0.792 8183	52419		0.540 0121	63834		0.234 2543	27689	
13.5	0.798 0602	51805	−2835	0.533 6287	64247	−3566	0.231 4854	27869	−1551
14.0	0.803 2407	51189		0.527 2040	64655		0.228 6985	28046	
14.5	0.808 3596	50567	2767	0.520 7385	65058	3612	0.225 8939	28221	1571
15.0	0.813 4163	49942		0.514 2327	65455		0.223 0718	28394	
15.5	0.818 4105	49312	2698	0.507 6872	65847	3657	0.220 2324	28565	1590
16.0	0.823 3417	48678		0.501 1025	66234		0.217 3759	28733	
16.5	0.828 2095	48041	2628	0.494 4791	66615	3701	0.214 5026	28898	1609
17.0	0.833 0136	47400		0.487 8176	66991		0.211 6128	29062	
17.5	0.837 7536		2557	0.481 1185		3743	0.208 7066		1628
	+	46754		—	67362		—	29223	
18.0	0.842 4290	46104		0.474 3823	67728		0.205 7843	29381	
18.5	0.847 0394	45452	−2485	0.467 6095	68088	−3784	0.202 8462	29538	−1646
19.0	0.851 5846	44797		0.460 8007	68441		0.199 8924	29692	
19.5	0.856 0643	44138	2412	0.453 9566	68789	3825	0.196 9232	29843	1663
20.0	0.860 4781	43475		0.447 0777	69131		0.193 9389	29991	
20.5	0.864 8256	42811	2339	0.440 1646	69468	3864	0.190 9398	30137	1680
21.0	0.869 1067	42143		0.433 2178	69798		0.187 9261	30281	
21.5	0.873 3210	41472	2265	0.426 2380	70122	3902	0.184 8980	30421	1697
22.0	0.877 4682	40798		0.419 2258	70441		0.181 8559	30560	
22.5	0.881 5480		2190	0.412 1817		3939	0.178 7999		1713
	+	40121		—	70754		—	30696	
23.0	0.885 5601	39442		0.405 1063	71061		0.175 7303	30829	
23.5	0.889 5043	38759	−2115	0.398 0002	71362	−3974	0.172 6474	30959	−1729
24.0	0.893 3802	38075		0.390 8640	71658		0.169 5515	31087	
24.5	0.897 1877	37388	2039	0.383 6982	71947	4008	0.166 4428	31213	1744
25.0	0.900 9265	36698		0.376 5035	72231		0.163 3215	31336	
25.5	0.904 5963	36007	1963	0.369 2804	72509	4042	0.160 1879	31456	1758
26.0	0.908 1970	35314		0.362 0295	72781		0.157 0423	31573	
26.5	0.911 7284	34620	1886	0.354 7514	73048	4074	0.153 8850	31688	1772
27.0	0.915 1904			0.347 4466			0.150 7162		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
Febr. 27.0	0.915 1904	33923		0.347 4466	73308		0.150 7162	31801	
27.5	0.918 5827	33224	−1808	0.340 1158	73563	−4104	0.147 5361	31911	−1785
28.0	0.921 9051	32524		0.332 7595	73812		0.144 3450	32019	
28.5	0.925 1575	31822	1730	0.325 3783	74056	4133	0.141 1431	32125	1798
29.0	0.928 3397	31118		0.317 9727	74294		0.137 9306	32228	
29.5	0.931 4515	30413	1651	0.310 5433	74527	4162	0.134 7078	32328	1810
März 1.0	0.934 4928	29706		0.303 0906	74754		0.131 4750	32426	
1.5	0.937 4634	28997	1572	0.295 6152	74976	4189	0.128 2324	32522	1822
2.0	0.940 3631	28287		0.288 1176	75193		0.124 9802	32616	
2.5	0.943 1918		1492	0.280 5983		4215	0.121 7186		1833
	+	27576		—	75404		—	32707	
3.0	0.945 9494	26863		0.273 0579	75611		0.118 4479	32796	
3.5	0.948 6357	26149	−1412	0.265 4968	75811	−4239	0.115 1683	32882	−1844
4.0	0.951 2506	25432		0.257 9157	76007		0.111 8801	32967	
4.5	0.953 7938	24713	1331	0.250 3150	76197	4262	0.108 5834	33050	1854
5.0	0.956 2651	23993		0.242 6953	76381		0.105 2784	33130	
5.5	0.958 6644	23272	1250	0.235 0572	76560	4284	0.101 9654	33207	1864
6.0	0.960 9916	22548		0.227 4012	76734		0.098 6447	33283	
6.5	0.963 2464	21823	1168	0.219 7278	76902	4304	0.095 3164	33356	1873
7.0	0.965 4287	21096		0.212 0376	77064		0.091 9808	33427	
7.5	0.967 5383		1086	0.204 3312		4323	0.088 6381		1881
	+	20368		—	77221		—	33495	
8.0	0.969 5751	19637		0.196 6091	77372		0.085 2886	33560	
8.5	0.971 5388	18905	−1004	0.188 8719	77518	−4341	0.081 9326	33623	−1889
9.0	0.973 4293	18172		0.181 1201	77659		0.078 5703	33684	
9.5	0.975 2465	17438	922	0.173 3542	77793	4358	0.075 2019	33743	1896
10.0	0.976 9903	16702		0.165 5749	77921		0.071 8276	33799	
10.5	0.978 6605	15964	839	0.157 7828	78042	4373	0.068 4477	33852	1903
11.0	0.980 2569	15225		0.149 9786	78159		0.065 0625	33903	
11.5	0.981 7794	14486	756	0.142 1627	78270	4387	0.061 6722	33952	1909
12.0	0.983 2280	13745		0.134 3357	78373		0.058 2770	33998	
12.5	0.984 6025		673	0.126 4984		4400	0.054 8772		1914
	+	13002		—	78472		—	34040	
13.0	0.985 9027	12259		0.118 6512	78565		0.051 4732	34081	
13.5	0.987 1286	11516	−590	0.110 7947	78651	−4411	0.048 0651	34118	−1919
14.0	0.988 2802	10771		0.102 9296	78731		0.044 6533	34153	
14.5	0.989 3573	10025	506	0.095 0565	78805	4420	0.041 2380	34186	1923
15.0	0.990 3598	9278		0.087 1760	78872		0.037 8194	34216	
15.5	0.991 2876	8531	422	0.079 2888	78934	4429	0.034 3978	34242	1927
16.0	0.992 1407	7782		0.071 3954	78990		0.030 9736	34267	
16.5	0.992 9189	7034	338	0.063 4964	79039	4437	0.027 5469	34288	1930
17.0	0.993 6223			0.055 5925			0.024 1181		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			—			—		
März 17.0	0.993 6223	6285		0.055 5925	79081		0.024 1181	34307	
17.5	0.994 2508	5536	— 254	0.047 6844	79118	—4443	0.020 6874	34324	—1933
18.0	0.994 8044	4787		0.039 7726	79149		0.017 2550	34337	
18.5	0.995 2831	4038	170	0.031 8577	79172	4448	0.013 8213	34348	1935
19.0	0.995 6869	3288		0.023 9405	79190		0.010 3865	34355	
19.5	0.996 0157	2539	86	0.016 0215	79201	4451	0.006 9510	34360	1936
20.0	0.996 2696	1790		0.008 1014	79206		0.003 5150	34362	
20.5	0.996 4486		— 2	0.000 1808		4453	0.000 0788		1937
	+	1041		+	79204		+	34361	
21.0	0.996 5527	292		0.007 7396	79196		0.003 3573	34358	
21.5	0.996 5819	—	+ 82	0.015 6592		4454	0.006 7931		1937
	+	455		+	79183		+	34352	
22.0	0.996 5364	1203		0.023 5775	79163		0.010 2283	34343	
22.5	0.996 4161	1949	+ 166	0.031 4938	79136	—4453	0.013 6626	34331	—1937
23.0	0.996 2212	2695		0.039 4074	79103		0.017 0957	34317	
23.5	0.995 9517	3439	250	0.047 3177	79064	4451	0.020 5274	34300	1936
24.0	0.995 6078	4183		0.055 2241	79019		0.023 9574	34280	
24.5	0.995 1895	4925	334	0.063 1260	78969	4447	0.027 3854	34257	1934
25.0	0.994 6970	5667		0.071 0229	78912		0.030 8111	34232	
25.5	0.994 1303	6408	418	0.078 9141	78849	4442	0.034 2343	34205	1932
26.0	0.993 4895	7146		0.086 7990	78781		0.037 6548	34175	
26.5	0.992 7749		502	0.094 6771		4436	0.041 0723		1929
	+	7882		+	78708		+	34142	
27.0	0.991 9867	8618		0.102 5479	78628		0.044 4865	34107	
27.5	0.991 1249	9353	+ 586	0.110 4107	78542	—4429	0.047 8972	34070	—1926
28.0	0.990 1896	10086		0.118 2649	78450		0.051 3042	34030	
28.5	0.989 1810	10817	669	0.126 1099	78354	4420	0.054 7072	33988	1922
29.0	0.988 0993	11548		0.133 9453	78253		0.058 1060	33943	
29.5	0.986 9445	12276	752	0.141 7706	78146	4410	0.061 5003	33896	1918
30.0	0.985 7169	13004		0.149 5852	78033		0.064 8899	33847	
30.5	0.984 4165	13729	835	0.157 3885	77916	4399	0.068 2746	33796	1913
31.0	0.983 0436	14452		0.165 1801	77792		0.071 6542	33742	
31.5	0.981 5984		918	0.172 9593		4387	0.075 0284		1908
	+	15175		+	77664		+	33686	
April 1.0	0.980 0809	15896		0.180 7257	77531		0.078 3970	33628	
1.5	0.978 4913	16616	+1000	0.188 4788	77392	—4373	0.081 7598	33568	—1902
2.0	0.976 8297	17335		0.196 2180	77248		0.085 1166	33506	
2.5	0.975 0962	18053	1082	0.203 9428	77099	4358	0.088 4672	33442	1895
3.0	0.973 2909	18769		0.211 6527	76945		0.091 8114	33374	
3.5	0.971 4140	19483	1164	0.219 3472	76785	4342	0.095 1488	33304	1888
4.0	0.969 4657	20196		0.227 0257	76620		0.098 4792	33233	
4.5	0.967 4461	20908	1246	0.234 6877	76450	4324	0.101 8025	33160	1880
5.0	0.965 3553			0.242 3327			0.105 1185		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
April 5.0	0.965 3553	21619		0.242 3327	76274		0.105 1185	33084	
5.5	0.963 1934	22328	+1327	0.249 9601	76092	−4305	0.108 4269	33006	−1872
6.0	0.960 9606	23034		0.257 5693	75906		0.111 7275	32925	
6.5	0.958 6572	23740	1408	0.265 1599	75714	4285	0.115 0200	32842	1863
7.0	0.956 2832	24445		0.272 7313	75516		0.118 3042	32756	
7.5	0.953 8387	25147	1488	0.280 2829	75313	4263	0.121 5798	32669	1854
8.0	0.951 3240	25848		0.287 8142	75105		0.124 8467	32579	
8.5	0.948 7392	26546	1568	0.295 3247	74891	4240	0.128 1046	32487	1844
9.0	0.946 0846	27243		0.302 8138	74671		0.131 3533	32392	
9.5	0.943 3603		1647	0.310 2809		4216	0.134 5925		1834
	+	27938		+	74446		+	32294	
10.0	0.940 5665	28631		0.317 7255	74215		0.137 8219	32194	
10.5	0.937 7034	29321	+1726	0.325 1470	73979	−4191	0.141 0413	32092	−1823
11.0	0.934 7713	30010		0.332 5449	73738		0.144 2505	31988	
11.5	0.931 7703	30695	1805	0.339 9187	73491	4164	0.147 4493	31882	1812
12.0	0.928 7008	31379		0.347 2678	73238		0.150 6375	31772	
12.5	0.925 5629	32061	1883	0.354 5916	72979	4136	0.153 8147	31659	1800
13.0	0.922 3568	32740		0.361 8895	72716		0.156 9806	31545	
13.5	0.919 0828	33418	1960	0.369 1611	72447	4108	0.160 1351	31429	1787
14.0	0.915 7410	34093		0.376 4058	72172		0.163 2780	31310	
14.5	0.912 3317		2037	0.383 6230		4078	0.166 4090		1774
	+	34765		+	71892		+	31189	
15.0	0.908 8552	35433		0.390 8122	71606		0.169 5279	31066	
15.5	0.905 3119	36099	+2113	0.397 9728	71314	−4046	0.172 6345	30940	−1760
16.0	0.901 7020	36762		0.405 1042	71017		0.175 7285	30811	
16.5	0.898 0258	37422	2188	0.412 2059	70715	4013	0.178 8096	30679	1746
17.0	0.894 2836	38079		0.419 2774	70407		0.181 8775	30545	
17.5	0.890 4757	38732	2263	0.426 3181	70093	3980	0.184 9320	30409	1731
18.0	0.886 6025	39383		0.433 3274	69774		0.187 9729	30270	
18.5	0.882 6642	40030	2337	0.440 3048	69450	3945	0.190 9999	30129	1716
19.0	0.878 6612	40673		0.447 2498	69121		0.194 0128	29986	
19.5	0.874 5939		2411	0.454 1619		3909	0.197 0114		1700
	+	41313		+	68786		+	29841	
20.0	0.870 4626	41949		0.461 0405	68446		0.199 9955	29694	
20.5	0.866 2677	42580	+2484	0.467 8851	68102	−3872	0.202 9649	29544	−1684
21.0	0.862 0097	43209		0.474 6953	67753		0.205 9193	29392	
21.5	0.857 6888	43833	2556	0.481 4706	67399	3833	0.208 8585	29238	1667
22.0	0.853 3055	44453		0.488 2105	67040		0.211 7823	29082	
22.5	0.848 8602	45068	2628	0.494 9145	66677	3793	0.214 6905	28924	1650
23.0	0.844 3534	45680		0.501 5822	66308		0.217 5829	28764	
23.5	0.839 7854	46288	2699	0.508 2130	65935	3753	0.220 4593	28601	1633
24.0	0.835 1566			0.514 8065			0.223 3194		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
April 24.0	0.835 1566	46892		0.514 8065	65558		0.223 3194	28437	
24.5	0.830 4674	47493	+2769	0.521 3623	65177	−3712	0.226 1631	28272	−1615
25.0	0.825 7181	48089		0.527 8800	64791		0.228 9903	28104	
25.5	0.820 9092	48681	2838	0.534 3591	64402	3669	0.231 8007	27935	1596
26.0	0.816 0411	49268		0.540 7993	64008		0.234 5942	27763	
26.5	0.811 1143	49852	2906	0.547 2001	63610	3625	0.237 3705	27590	1577
27.0	0.806 1291	50432		0.553 5611	63208		0.240 1295	27416	
27.5	0.801 0859	51008	2973	0.559 8819	62803	3580	0.242 8711	27240	1557
28.0	0.795 9851	51580		0.566 1622	62393		0.245 5951	27062	
28.5	0.790 8271	52148	3039	0.572 4015	61979	3534	0.248 3013	26882	1537
	+			+			+		
29.0	0.785 6123	52713		0.578 5994	61562		0.250 9895	26700	
29.5	0.780 3410	53273	+3105	0.584 7556	61140	−3488	0.253 6595	26518	−1517
30.0	0.775 0137	53830		0.590 8696	60714		0.256 3113	26333	
30.5	0.769 6307	54382	3170	0.596 9410	60285	3440	0.258 9446	26147	1496
Mai 1.0	0.764 1925	54931		0.602 9695	59852		0.261 5593	25960	
1.5	0.758 6994	55476	3234	0.608 9547	59414	3391	0.264 1553	25771	1475
2.0	0.753 1518	56017		0.614 8961	58973		0.266 7324	25579	
2.5	0.747 5501	56555	3297	0.620 7934	58529	3342	0.269 2903	25387	1453
3.0	0.741 8946	57089		0.626 6463	58081		0.271 8290	25192	
3.5	0.736 1857	57619	3359	0.632 4544	57628	3291	0.274 3482	24996	1431
	+			+			+		
4.0	0.730 4238	58145		0.638 2172	57170		0.276 8478	24798	
4.5	0.724 6093	58666	+3420	0.643 9342	56710	−3239	0.279 3276	24599	−1409
5.0	0.718 7427	59184		0.649 6052	56245		0.281 7875	24397	
5.5	0.712 8243	59698	3480	0.655 2297	55776	3186	0.284 2272	24195	1386
6.0	0.706 8545	60207		0.660 8073	55304		0.286 6467	23990	
6.5	0.700 8338	60713	3539	0.666 3377	54829	3132	0.289 0457	23784	1363
7.0	0.694 7625	61214		0.671 8206	54348		0.291 4241	23577	
7.5	0.688 6411	61711	3597	0.677 2554	53864	3078	0.293 7818	23367	1339
8.0	0.682 4700	62204		0.682 6418	53376		0.296 1185	23155	
8.5	0.676 2496	62692	3654	0.687 9794	52884	3023	0.298 4340	22941	1315
	+			+			+		
9.0	0.669 9804	63176		0.693 2678	52389		0.300 7281	22727	
9.5	0.663 6628	63655	+3710	0.698 5067	51889	−2966	0.303 0008	22511	−1290
10.0	0.657 2973	64130		0.703 6956	51385		0.305 2519	22293	
10.5	0.650 8843	64601	3765	0.708 8341	50878	2909	0.307 4812	22073	1265
11.0	0.644 4242	65066		0.713 9219	50367		0.309 6885	21852	
11.5	0.637 9176	65528	3818	0.718 9586	49852	2851	0.311 8737	21629	1240
12.0	0.631 3648	65984		0.723 9438	49334		0.314 0366	21403	
12.5	0.624 7664	66436	3870	0.728 8772	48811	2792	0.316 1769	21177	1215
13.0	0.618 1228			0.733 7583			0.318 2946		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
Mai 13.0	0.618 1228	66883		0.733 7583	48285		0.318 2946	20949	
13.5	0.611 4345	67325	+3922	0.738 5868	47755	−2733	0.320 3895	20719	−1189
14.0	0.604 7020	67762		0.743 3623	47221		0.322 4614	20487	
14.5	0.597 9258	68194	3973	0.748 0844	46684	2673	0.324 5101	20255	1163
15.0	0.591 1064	68620		0.752 7528	46144		0.326 5356	20020	
15.5	0.584 2444	69041	4022	0.757 3672	45600	2612	0.328 5376	19784	1136
16.0	0.577 3403	69456		0.761 9272	45052		0.330 5160	19546	
16.5	0.570 3947	69866	4070	0.766 4324	44501	2550	0.332 4706	19306	1109
17.0	0.563 4081	70271		0.770 8825	43947		0.334 4012	19065	
17.5	0.556 3810		4117	0.775 2772		2487	0.336 3077		1082
	+	70670		+	43389		+	18824	
18.0	0.549 3140	71063		0.779 6161	42829		0.338 1901	18580	
18.5	0.542 2077	71450	+4163	0.783 8990	42265	−2424	0.340 0481	18336	−1054
19.0	0.535 0627	71832		0.788 1255	41699		0.341 8817	18090	
19.5	0.527 8795	72208	4208	0.792 2954	41129	2360	0.343 6907	17842	1026
20.0	0.520 6587	72577		0.796 4083	40557		0.345 4749	17594	
20.5	0.513 4010	72941	4251	0.800 4640	39983	2295	0.347 2343	17344	998
21.0	0.506 1069	73300		0.804 4623	39406		0.348 9687	17093	
21.5	0.498 7769	73653	4293	0.808 4029	38827	2230	0.350 6780	16842	970
22.0	0.491 4116	74000		0.812 2856	38245		0.352 3622	16589	
22.5	0.484 0116		4334	0.816 1101		2164	0.354 0211		941
	+	74340		+	37662		+	16335	
23.0	0.476 5776	74676		0.819 8763	37077		0.355 6546	16081	
23.5	0.469 1100	75006	+4374	0.823 5840	36489	−2097	0.357 2627	15826	− 912
24.0	0.461 6094	75331		0.827 2329	35900		0.358 8453	15570	
24.5	0.454 0763	75650	4413	0.830 8229	35309	2030	0.360 4023	15313	883
25.0	0.446 5113	75963		0.834 3538	34715		0.361 9336	15056	
25.5	0.438 9150	76271	4450	0.837 8253	34119	1962	0.363 4392	14797	853
26.0	0.431 2879	76574		0.841 2372	33522		0.364 9189	14537	
26.5	0.423 6305	76870	4486	0.844 5894	32923	1894	0.366 3726	14277	824
27.0	0.415 9435	77162		0.847 8817	32321		0.367 8003	14017	
27.5	0.408 2273		4521	0.851 1138		1825	0.369 2020		794
	+	77448		+	31718		+	13756	
28.0	0.400 4825	77729		0.854 2856	31114		0.370 5776	13494	
28.5	0.392 7096	78006	+4554	0.857 3970	30507	−1756	0.371 9270	13231	− 764
29.0	0.384 9090	78277		0.860 4477	29899		0.373 2501	12967	
29.5	0.377 0813	78542	4586	0.863 4376	29290	1686	0.374 5468	12703	733
30.0	0.369 2271	78802		0.866 3666	28678		0.375 8171	12438	
30.5	0.361 3469	79057	4617	0.869 2344	28065	1616	0.377 0609	12172	703
31.0	0.353 4412	79306		0.872 0409	27450		0.378 2781	11906	
31.5	0.345 5106	79551	4646	0.874 7859	26832	1545	0.379 4687	11638	672
Juni 1.0	0.337 5555			0.877 4691			0.380 6325		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
Juni 1.0	0.337 5555	79791		0.877 4691	26213		0.380 6325	11369	
1.5	0.329 5764	80025	+4674	0.880 0904	25593	−1474	0.381 7694	11101	−641
2.0	0.321 5739	80253		0.882 6497	24971		0.382 8795	10832	
2.5	0.313 5486	80476	4701	0.885 1468	24347	1402	0.383 9627	10561	610
3.0	0.305 5010	80694		0.887 5815	23722		0.385 0188	10290	
3.5	0.297 4316	80906	4727	0.889 9537	23094	1330	0.386 0478	10019	579
4.0	0.289 3410	81113		0.892 2631	22465		0.387 0497	9747	
4.5	0.281 2297	81314	4751	0.894 5096	21835	1258	0.388 0244	9473	547
5.0	0.273 0983	81510		0.896 6931	21203		0.388 9717	9199	
5.5	0.264 9473		4774	0.898 8134		1185	0.389 8916		516
	+	81700		+	20568		+	8924	
6.0	0.256 7773	81885		0.900 8702	19932		0.390 7840	8648	
6.5	0.248 5888	82065	+4796	0.902 8634	19295	−1112	0.391 6488	8372	−484
7.0	0.240 3823	82239		0.904 7929	18656		0.392 4860	8096	
7.5	0.232 1584	82406	4816	0.906 6585	18016	1039	0.393 2956	7818	452
8.0	0.223 9178	82568		0.908 4601	17375		0.394 0774	7540	
8.5	0.215 6610	82724	4835	0.910 1976	16731	965	0.394 8314	7261	420
9.0	0.207 3886	82875		0.911 8707	16086		0.395 5575	6982	
9.5	0.199 1011	83019	4852	0.913 4793	15441	891	0.396 2557	6702	388
10.0	0.190 7992	83158		0.915 0234	14793		0.396 9259	6421	
10.5	0.182 4834		4868	0.916 5027		816	0.397 5680		356
	+	83291		+	14145		+	6140	
11.0	0.174 1543	83418		0.917 9172	13495		0.398 1820	5857	
11.5	0.165 8125	83539	+4883	0.919 2667	12843	−742	0.398 7677	5574	−324
12.0	0.157 4586	83653		0.920 5510	12191		0.399 3251	5291	
12.5	0.149 0933	83761	4896	0.921 7701	11537	667	0.399 8542	5008	291
13.0	0.140 7172	83863		0.922 9238	10882		0.400 3550	4723	
13.5	0.132 3309	83957	4908	0.924 0120	10227	592	0.400 8273	4438	259
14.0	0.123 9352	84046		0.925 0347	9570		0.401 2711	4152	
14.5	0.115 5306	84129	4918	0.925 9917	8913	517	0.401 6863	3867	226
15.0	0.107 1177	84205		0.926 8830	8255		0.402 0730	3582	
15.5	0.098 6972		4927	0.927 7085		442	0.402 4312		193
	+	84273		+	7597		+	3296	
16.0	0.090 2699	84336		0.928 4682	6937		0.402 7608	3010	
16.5	0.081 8363	84393	+4935	0.929 1619	6278	−367	0.403 0618	2723	−160
17.0	0.073 3970	84442		0.929 7897	5619		0.403 3341	2437	
17.5	0.064 9528	84485	4941	0.930 3516	4959	292	0.403 5778	2150	127
18.0	0.056 5043	84522		0.930 8475	4301		0.403 7928	1864	
18.5	0.048 0521	84553	4946	0.931 2776	3642	216	0.403 9792	1578	94
19.0	0.039 5968	84577		0.931 6418	2983		0.404 1370	1292	
19.5	0.031 1391	84595	4950	0.931 9401	2324	141	0.404 2662	1006	61
20.0	0.022 6796			0.932 1725			0.404 3668		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			+			+		
Juni 20.0	0.022 6796	84606		0.932 1725	1667		0.404 3668	721	
20.5	0.014 2190	84612	+4952	0.932 3392	1009	− 65	0.404 4389	435	− 28
21.0	0.005 7578			0.932 4401			0.404 4824		
	—	84612		+	351		+	150	
21.5	0.002 7034	84606	+4953	0.932 4752	306	+ 10	0.404 4974	136	+ 5
22.0	0.011 1640	84594		0.932 4446	962		0.404 4838	421	
22.5	0.019 6234	84576	4952	0.932 3484	1617	86	0.404 4417	705	37
23.0	0.028 0810	84552		0.932 1867	2272		0.404 3712	990	
23.5	0.036 5362	84523	4950	0.931 9595	2927	162	0.404 2722	1273	70
24.0	0.044 9885	84487		0.931 6668	3581		0.404 1449	1557	
24.5	0.053 4372		4946	0.931 3087		238	0.403 9892		103
	—	84447		+	4234		+	1839	
25.0	0.061 8819	84401		0.930 8853	4887		0.403 8053	2123	
25.5	0.070 3220	84349	+4941	0.930 3966	5539	+ 314	0.403 5930	2406	+136
26.0	0.078 7569	84292		0.929 8427	6191		0.403 3524	2689	
26.5	0.087 1861	84229	4935	0.929 2236	6843	389	0.403 0835	2971	169
27.0	0.095 6090	84161		0.928 5393	7493		0.402 7864	3252	
27.5	0.104 0251	84086	4928	0.927 7900	8144	464	0.402 4612	3534	201
28.0	0.112 4337	84006		0.926 9756	8793		0.402 1078	3815	
28.5	0.120 8343	83921	4919	0.926 0963	9441	539	0.401 7263	4096	234
29.0	0.129 2264	83831		0.925 1522	10089		0.401 3167	4377	
29.5	0.137 6095		4909	0.924 1433		614	0.400 8790		267
	—	83735		+	10736		+	4658	
30.0	0.145 9830	83634		0.923 0697	11383		0.400 4132	4938	
30.5	0.154 3464	83526	+4897	0.921 9314	12029	+ 689	0.399 9194	5217	+299
Juli 1.0	0.162 6990	83413		0.920 7285	12675		0.399 3977	5497	
1.5	0.171 0403	83295	4884	0.919 4610	13319	764	0.398 8480	5776	332
2.0	0.179 3698	83172		0.918 1291	13962		0.398 2704	6055	
2.5	0.187 6870	83042	4870	0.916 7329	14605	838	0.397 6649	6333	364
3.0	0.195 9912	82907		0.915 2724	15247		0.397 0316	6612	
3.5	0.204 2819	82766	4854	0.913 7477	15889	912	0.396 3704	6890	397
4.0	0.212 5585	82620		0.912 1588	16529		0.395 6814	7167	
4.5	0.220 8205		4837	0.910 5059		986	0.394 9647		429
	—	82468		+	17169		+	7445	
5.0	0.229 0673	82311		0.908 7890	17808		0.394 2202	7723	
5.5	0.237 2984	82147	+4818	0.907 0082	18447	+1060	0.393 4479	7999	+461
6.0	0.245 5131	81979		0.905 1635	19084		0.392 6480	8275	
6.5	0.253 7110	81804	4798	0.903 2551	19720	1133	0.391 8205	8551	493
7.0	0.261 8914	81624		0.901 2831	20355		0.390 9654	8827	
7.5	0.270 0538	81438	4777	0.899 2476	20989	1206	0.390 0827	9101	525
8.0	0.278 1976	81246		0.897 1487	21621		0.389 1726	9376	
8.5	0.286 3222	81047	4754	0.894 9866	22253	1279	0.388 2350	9650	556
9.0	0.294 4269			0.892 7613			0.387 2700		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Juli 9.0	0.294 4269	80843		0.892 7613	22883		0.387 2700	9924	
9.5	0.302 5112	80633	+4730	0.890 4730	23513	+1351	0.386 2776	10197	+ 588
10.0	0.310 5745	80416		0.888 1217	24142		0.385 2579	10470	
10.5	0.318 6161	80195	4705	0.885 7075	24769	1423	0.384 2109	10742	619
11.0	0.326 6356	79967		0.883 2306	25395		0.383 1367	11014	
11.5	0.334 6323	79733	4679	0.880 6911	26019	1494	0.382 0353	11285	650
12.0	0.342 6056	79493		0.878 0892	26642		0.380 9068	11556	
12.5	0.350 5549	79247	4651	0.875 4250	27263	1565	0.379 7512	11825	681
13.0	0.358 4796	78994		0.872 6987	27881		0.378 5687	12094	
13.5	0.366 3790	78734	4622	0.869 9106	28497	1636	0.377 3593	12361	712
	—			+			+		
14.0	0.374 2524	78469		0.867 0609	29111		0.376 1232	12628	
14.5	0.382 0993	78198	+4591	0.864 1498	29722	+1706	0.374 8604	12895	+ 742
15.0	0.389 9191	77920		0.861 1776	30333		0.373 5709	13160	
15.5	0.397 7111	77636	4559	0.858 1443	30941	1776	0.372 2549	13423	772
16.0	0.405 4747	77347		0.855 0502	31546		0.370 9126	13686	
16.5	0.413 2094	77052	4525	0.851 8956	32148	1845	0.369 5440	13948	802
17.0	0.420 9146	76751		0.848 6808	32747		0.368 1492	14209	
17.5	0.428 5897	76445	4490	0.845 4061	33344	1914	0.366 7283	14468	832
18.0	0.436 2342	76133		0.842 0717	33939		0.365 2815	14725	
18.5	0.443 8475	75816	4455	0.838 6778	34531	1982	0.363 8090	14982	862
	—			+			+		
19.0	0.451 4291	75493		0.835 2247	35119		0.362 3108	15237	
19.5	0.458 9784	75166	+ 4418	0.831 7128	35705	+2050	0.360 7871	15492	+ 891
20.0	0.466 4950	74833		0.828 1423	36288		0.359 2379	15744	
20.5	0.473 9783	74494	4380	0.824 5135	36868	2117	0.357 6635	15996	920
21.0	0.481 4277	74151		0.820 8267	37444		0.356 0639	16247	
21.5	0.488 8428	73802	4341	0.817 0823	38018	2183	0.354 4392	16495	949
22.0	0.496 2230	73450		0.813 2805	38589		0.352 7897	16743	
22.5	0.503 5680	73092	4300	0.809 4216	39158	2249	0.351 1154	16989	978
23.0	0.510 8772	72730		0.805 5058	39723		0.349 4165	17235	
23.5	0.518 1502	72362	4258	0.801 5335	40286	2314	0.347 6930	17478	1007
	—			+			+		
24.0	0.525 3864	71990		0.797 5049	40846		0.345 9452	17720	
24.5	0.532 5854	71613	+4215	0.793 4203	41403	+2379	0.344 1732	17962	+1035
25.0	0.539 7467	71231		0.789 2800	41957		0.342 3770	18202	
25.5	0.546 8698	70844	4171	0.785 0843	42508	2443	0.340 5568	18440	1063
26.0	0.553 9542	70453		0.780 8335	43057		0.338 7128	18678	
26.5	0.560 9995	70057	4125	0.776 5278	43602	2506	0.336 8450	18914	1090
27.0	0.568 0052	69657		0.772 1676	44144		0.334 9536	19149	
27.5	0.574 9709	69253	4079	0.767 7532	44684	2569	0.333 0387	19382	1117
28.0	0.581 8962			0.763 2848			0.331 1005		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X	Diff.	Red. auf 1910.0	Y	Diff.	Red. auf 1910.0	Z	Diff.	Red. auf 1910.0
	—			+			+		
Juli 28.0	0.581 8962	68843		0.763 2848	45220		0.331 1005	19615	
28.5	0.588 7805	68429	+4031	0.758 7628	45753	+2631	0.329 1390	19846	+1144
29.0	0.595 6234	68011		0.754 1875	46284		0.327 1544	20077	
29.5	0.602 4245	67587	3982	0.749 5591	46811	2692	0.325 1467	20305	1171
30.0	0.609 1832	67158		0.744 8780	47337		0.323 1162	20532	
30.5	0.615 8990	66726	3932	0.740 1443	47860	2752	0.321 0630	20758	1197
31.0	0.622 5716	66288		0.735 3583	48379		0.318 9872	20983	
31.5	0.629 2004	65846	3881	0.730 5204	48894	2811	0.316 8889	21206	1223
Aug. 1.0	0.635 7850	65399		0.725 6310	49407		0.314 7683	21429	
1.5	0.642 3249	64949	3829	0.720 6903	49917	2870	0.312 6254	21650	1248
	—			+			+		
2.0	0.648 8198	64494		0.715 6986	50423		0.310 4604	21870	
2.5	0.655 2692	64033	+3776	0.710 6563	50927	+2928	0.308 2734	22089	+1273
3.0	0.661 6725	63568		0.705 5636	51427		0.306 0645	22305	
3.5	0.668 0293	63099	3721	0.700 4209	51924	2985	0.303 8340	22521	1298
4.0	0.674 3392	62624		0.695 2285	52418		0.301 5819	22735	
4.5	0.680 6016	62146	3665	0.689 9867	52908	3041	0.299 3084	22948	1322
5.0	0.686 8162	61662		0.684 6959	53396		0.297 0136	23159	
5.5	0.692 9824	61173	3609	0.679 3563	53880	3096	0.294 6977	23369	1346
6.0	0.699 0997	60681		0.673 9683	54361		0.292 3608	23578	
6.5	0.705 1678	60183	3552	0.668 5322	54839	3150	0.290 0030	23786	1370
	—			+			+		
7.0	0.711 1861	59681		0.663 0483	55313		0.287 6244	23992	
7.5	0.717 1542	59173	+3493	0.657 5170	55783	+3204	0.285 2252	24197	+1393
8.0	0.723 0715	58661		0.651 9387	56250		0.282 8055	24399	
8.5	0.728 9376	58144	3434	0.646 3137	56713	3257	0.280 3656	24600	1416
9.0	0.734 7520	57622		0.640 6424	57172		0.277 9056	24800	
9.5	0.740 5142	57096	3374	0.634 9252	57627	3308	0.275 4256	24998	1439
10.0	0.746 2238	56564		0.629 1625	58078		0.272 9258	25193	
10.5	0.751 8802	56028	3313	0.623 3547	58524	3359	0.270 4065	25388	1461
11.0	0.757 4830	55487		0.617 5023	58966		0.267 8677	25581	
11.5	0.763 0317	54942	3250	0.611 6057	59405	3409	0.265 3096	25771	1483
	—			+			+		
12.0	0.768 5259	54392		0.605 6652	59839		0.262 7325	25959	
12.5	0.773 9651	53837	+3187	0.599 6813	60269	+3458	0.260 1366	26146	+1504
13.0	0.779 3488	53278		0.593 6544	60693		0.257 5220	26331	
13.5	0.784 6766	52715	3123	0.587 5851	61113	3506	0.254 8889	26513	1525
14.0	0.789 9481	52148		0.581 4738	61528		0.252 2376	26693	
14.5	0.795 1629	51578	3058	0.575 3210	61939	3553	0.249 5683	26871	1545
15.0	0.800 3207	51004		0.569 1271	62345		0.246 8812	27048	
15.5	0.805 4211	50425	2992	0.562 8926	62745	3599	0.244 1764	27222	1565
16.0	0.810 4636			0.556 6181			0.241 4542		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Aug. 16.0	0.810 4636	49843		0.556 6181	63140		0.241 4542	27393	
16.5	0.815 4479	49257	+2925	0.550 3041	63531	+3644	0.238 7149	27563	+1584
17.0	0.820 3736	48668		0.543 9510	63918		0.235 9586	27730	
17.5	0.825 2404	48075	2857	0.537 5592	64299	3688	0.233 1856	27896	1603
18.0	0.830 0479	47479		0.531 1293	64677		0.230 3960	28059	
18.5	0.834 7958	46881	2788	0.524 6616	65048	3731	0.227 5901	28220	1622
19.0	0.839 4839	46279		0.518 1568	65415		0.224 7681	28379	
19.5	0.844 1118	45673	2719	0.511 6153	65778	3772	0.221 9302	28536	1640
20.0	0.848 6791	45065		0.505 0375	66136		0.219 0766	28691	
20.5	0.853 1856		2648	0.498 4239		3812	0.216 2075		1658
	—	44454		+	66489		+	28844	
21.0	0.857 6310	43840		0.491 7750	66837		0.213 3231	28995	
21.5	0.862 0150	43223	+2577	0.485 0913	67180	+3851	0.210 4236	29143	+1675
22.0	0.866 3373	42604		0.478 3733	67519		0.207 5093	29289	
22.5	0.870 5977	41981	2505	0.471 6214	67854	3889	0.204 5804	29434	1692
23.0	0.874 7958	41356		0.464 8360	68184		0.201 6370	29577	
23.5	0.878 9314	40727	2433	0.458 0176	68508	3927	0.198 6793	29717	1708
24.0	0.883 0041	40096		0.451 1668	68829		0.195 7076	29856	
24.5	0.887 0137	39463	2360	0.444 2839	69144	3963	0.192 7220	29993	1724
25.0	0.890 9600	38826		0.437 3695	69455		0.189 7227	30128	
25.5	0.894 8426		2287	0.430 4240		3998	0.186 7099		1739
	—	38187		+	69761		+	30260	
26.0	0.898 6613	37544		0.423 4479	70063		0.183 6839	30391	
26.5	0.902 4157	36899	+2213	0.416 4416	70360	+4032	0.180 6448	30519	+1754
27.0	0.906 1056	36252		0.409 4056	70653		0.177 5929	30646	
27.5	0.909 7308	35602	2138	0.402 3403	70941	4065	0.174 5283	30770	1768
28.0	0.913 2910	34949		0.395 2462	71224		0.171 4513	30893	
28.5	0.916 7859	34294	2063	0.388 1238	71501	4097	0.168 3620	31013	1782
29.0	0.920 2153	33637		0.380 9737	71775		0.165 2607	31132	
29.5	0.923 5790	32977	1987	0.373 7962	72044	4127	0.162 1475	31248	1795
30.0	0.926 8767	32314		0.366 5918	72308		0.159 0227	31362	
30.5	0.930 1081		1910	0.359 3610		4156	0.155 8865		1808
	—	31648		+	72567		+	31475	
31.0	0.933 2729	30979		0.352 1043	72821		0.152 7390	31586	
31.5	0.936 3708	30308	+1833	0.344 8222	73071	+4184	0.149 5804	31694	+1820
Sept. 1.0	0.939 4016	29635		0.337 5151	73317		0.146 4110	31801	
1.5	0.942 3651	28960	1755	0.330 1834	73557	4211	0.143 2309	31905	1831
2.0	0.945 2611	28281		0.322 8277	73792		0.140 0404	32007	
2.5	0.948 0892	27599	1677	0.315 4485	74023	4236	0.136 8397	32108	1842
3.0	0.950 8491	26915		0.308 0462	74248		0.133 6289	32206	
3.5	0.953 5406	26229	1598	0.300 6214	74468	4260	0.130 4083	32301	1853
4.0	0.956 1635			0.293 1746			0.127 1782		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			+			+		
Sept. 4.0	0.956 1635	25540		0.293 1746	74684		0.127 1782	32395	
4.5	0.958 7175	24849	+1519	0.285 7062	74893	+4284	0.123 9387	32486	+1863
5.0	0.961 2024	24155		0.278 2169	75098		0.120 6901	32576	
5.5	0.963 6179	23459	1440	0.270 7071	75298	4306	0.117 4325	32663	1873
6.0	0.965 9638	22759		0.263 1773	75492		0.114 1662	32748	
6.5	0.968 2397	22058	1360	0.255 6281	75681	4327	0.110 8914	32831	1882
7.0	0.970 4455	21354		0.248 0600	75864		0.107 6083	32910	
7.5	0.972 5809	20647	1279	0.240 4736	76041	4346	0.104 3173	32987	1890
8.0	0.974 6456	19939		0.232 8695	76213		0.101 0186	33062	
8.5	0.976 6395	19229	1198	0.225 2482	76380	4364	0.097 7124	33135	1898
	—			+			+		
9.0	0.978 5624	18516		0.217 6102	76540		0.094 3989	33205	
9.5	0.980 4140	17801	+1117	0.209 9562	76694	+4381	0.091 0784	33272	+1905
10.0	0.982 1941	17084		0.202 2868	76842		0.087 7512	33336	
10.5	0.983 9025	16366	1035	0.194 6026	76984	4396	0.084 4176	33398	1912
11.0	0.985 5391	15646		0.186 9042	77120		0.081 0778	33458	
11.5	0.987 1037	14926	953	0.179 1922	77250	4410	0.077 7320	33514	1918
12.0	0.988 5963	14203		0.171 4672	77375		0.074 3806	33568	
12.5	0.990 0166	13479	871	0.163 7297	77493	4423	0.071 0238	33619	1924
13.0	0.991 3645	12754		0.155 9804	77605		0.067 6619	33667	
13.5	0.992 6399	12027	789	0.148 2199	77710	4435	0.064 2952	33713	1929
	—			+			+		
14.0	0.993 8426	11300		0.140 4489	77811		0.060 9239	33757	
14.5	0.994 9726	10573	+ 706	0.132 6678	77905	+4446	0.057 5482	33797	+1934
15.0	0.996 0299	9845		0.124 8773	77993		0.054 1685	33835	
15.5	0.997 0144	9116	623	0.117 0780	78076	4455	0.050 7850	33870	1938
16.0	0.997 9260	8387		0.109 2704	78152		0.047 3980	33903	
16.5	0.998 7647	7658	540	0.101 4552	78223	4463	0.044 0077	33934	1941
17.0	0.999 5305	6928		0.093 6329	78288		0.040 6143	33962	
17.5	1.000 2233	6198	457	0.085 8041	78347	4470	0.037 2181	33987	1944
18.0	1.000 8431	5467		0.077 9694	78400		0.033 8194	34010	
18.5	1.001 3898	4736	374	0.070 1294	78447	4475	0.030 4184	34030	1946
	—			+			+		
19.0	1.001 8634	4005		0.062 2847	78489		0.027 0154	34048	
19.5	1.002 2639	3273	+ 291	0.054 4358	78525	+4479	0.023 6106	34064	+1948
20.0	1.002 5912	2540		0.046 5833	78557		0.020 2042	34077	
20.5	1.002 8452	1809	207	0.038 7276	78583	4481	0.016 7965	34087	1949
21.0	1.003 0261	1077		0.030 8693	78603		0.013 3878	34096	
21.5	1.003 1338	344	124	0.023 0090	78617	4482	0.009 9782	34102	1950
22.0	1.003 1682	388		0.015 1473	78626		0.006 5680	34105	
22.5	1.003 1294	1120	+ 40	0.007 2847	78629	4483	0.003 1575	34106	1950
	—			—			—		
23.0	1.003 0174			0.000 5782			0.000 2531		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Sept. 23.0	1.003 0174	1853		0.000 5782	78627		0.000 2531	34105	
23.5	1.002 8321	2584	− 43	0.008 4409	78620	+4482	0.003 6636	34102	+1949
24.0	1.002 5737	3316		0.016 3029	78606		0.007 0738	34096	
24.5	1.002 2421	4048	127	0.024 1635	78588	4479	0.010 4834	34087	1948
25.0	1.001 8373	4781		0.032 0223	78564		0.013 8921	34077	
25.5	1.001 3592	5512	210	0.039 8787	78535	4475	0.017 2998	34064	1946
26.0	1.000 8080	6244		0.047 7322	78499		0.020 7062	34048	
26.5	1.000 1836	6975	294	0.055 5821	78459	4470	0.024 1110	34031	1944
27.0	0.999 4861	7707		0.063 4280	78413		0.027 5141	34011	
27.5	0.998 7154		377	0.071 2693		4463	0.030 9152		1941
	—	8439		—	78362		—	33989	
28.0	0.997 8715	9170		0.079 1055	78305		0.034 3141	33964	
28.5	0.996 9545	9901	− 460	0.086 9360	78243	+4455	0.037 7105	33938	+1938
29.0	0.995 9644	10632		0.094 7603	78176		0.041 1043	33909	
29.5	0.994 9012	11362	543	0.102 5779	78104	4446	0.044 4952	33877	1934
30.0	0.993 7650	12093		0.110 3883	78025		0.047 8829	33843	
30.5	0.992 5557	12822	626	0.118 1908	77941	4436	0.051 2672	33808	1929
Okt. 1.0	0.991 2735	13553		0.125 9849	77852		0.054 6480	33770	
1.5	0.989 9182	14282	709	0.133 7701	77756	4424	0.058 0250	33729	1924
2.0	0.988 4900	15013		0.141 5457	77656		0.061 3979	33685	
2.5	0.986 9887		792	0.149 3113		4411	0.064 7664		1918
	—	15743		—	77549		—	33639	
3.0	0.985 4144	16472		0.157 0662	77436		0.068 1303	33591	
3.5	0.983 7672	17199	− 875	0.164 8098	77318	+4397	0.071 4894	33540	+1912
4.0	0.982 0473	17927		0.172 5416	77194		0.074 8434	33486	
4.5	0.980 2546	18655	957	0.180 2610	77064	4381	0.078 1920	33431	1905
5.0	0.978 3891	19382		0.187 9674	76928		0.081 5351	33372	
5.5	0.976 4509	20109	1039	0.195 6602	76786	4364	0.084 8723	33311	1898
6.0	0.974 4400	20834		0.203 3388	76638		0.088 2034	33247	
6.5	0.972 3566	21559	1120	0.211 0026	76484	4346	0.091 5281	33180	1890
7.0	0.970 2007	22283		0.218 6510	76324		0.094 8461	33111	
7.5	0.967 9724		1201	0.226 2834		4327	0.098 1572		1882
	—	23005		—	76157		—	33040	
8.0	0.965 6719	23727		0.233 8991	75984		0.101 4612	32965	
8.5	0.963 2992	24447	−1282	0.241 4975	75805	+4306	0.104 7577	32887	+1873
9.0	0.960 8545	25166		0.249 0780	75620		0.108 0464	32806	
9.5	0.958 3379	25882	1362	0.256 6400	75429	4284	0.111 3270	32724	1863
10.0	0.955 7497	26597		0.264 1829	75232		0.114 5994	32638	
10.5	0.953 0900	27311	1442	0.271 7061	75028	4260	0.117 8632	32550	1853
11.0	0.950 3589	28022		0.279 2089	74818		0.121 1182	32459	
11.5	0.947 5567	28731	1522	0.286 6907	74602	4235	0.124 3641	32365	1842
12.0	0.944 6836			0.294 1509			0.127 6006		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912		X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Okt.	12.0	0.944 6836	29439		0.294 1509	74381		0.127 6006	32268	
	12.5	0.941 7397	30144	−1601	0.301 5890	74153	+4209	0.130 8274	32170	+1831
	13.0	0.938 7253	30847		0.309 0043	73920		0.134 0444	32068	
	13.5	0.935 6406	31547	1680	0.316 3963	73681	4182	0.137 2512	31963	1819
	14.0	0.932 4859	32244		0.323 7644	73435		0.140 4475	31857	
	14.5	0.929 2615	32938	1758	0.331 1079	73185	4153	0.143 6332	31748	1806
	15.0	0.925 9677	33630		0.338 4264	72928		0.146 8080	31636	
	15.5	0.922 6047	34319	1836	0.345 7192	72666	4123	0.149 9716	31523	1793
	16.0	0.919 1728	35006		0.352 9858	72399		0.153 1239	31407	
	16.5	0.915 6722		1913	0.360 2257		4092	0.156 2646		1779
		—	35691		—	72127		—	31288	
	17.0	0.912 1031	36373		0.367 4384	71848		0.159 3934	31166	
	17.5	0.908 4658	37051	−1989	0.374 6232	71564	+4060	0.162 5100	31043	+1765
	18.0	0.904 7607	37727		0.381 7796	71275		0.165 6143	30917	
	18.5	0.900 9880	38399	2065	0.388 9071	70982	4027	0.168 7060	30790	1751
	19.0	0.897 1481	39070		0.396 0053	70682		0.171 7850	30659	
	19.5	0.893 2411	39737	2140	0.403 0735	70378	3992	0.174 8509	30527	1736
	20.0	0.889 2674	40401		0.410 1113	70069		0.177 9036	30393	
	20.5	0.885 2273	41063	2215	0.417 1182	69754	3956	0.180 9429	30256	1721
	21.0	0.881 1210	41721		0.424 0936	69434		0.183 9685	30116	
	21.5	0.876 9489		2289	0.431 0370		3919	0.186 9801		1705
		—	42377		—	69109		—	29975	
	22.0	0.872 7112	43029		0.437 9479	68778		0.189 9776	29832	
	22.5	0.868 4083	43678	−2362	0.444 8257	68444	+3881	0.192 9608	29687	+1688
	23.0	0.864 0405	44324		0.451 6701	68104		0.195 9295	29539	
	23.5	0.859 6081	44967	2435	0.458 4805	67759	3842	0.198 8834	29389	1671
	24.0	0.855 1114	45607		0.465 2564	67410		0.201 8223	29238	
	24.5	0.850 5507	46243	2507	0.471 9974	67055	3801	0.204 7461	29085	1653
	25.0	0.845 9264	46877		0.478 7029	66696		0.207 6546	28928	
	25.5	0.841 2387	47507	2578	0.485 3725	66333	3759	0.210 5474	28771	1635
	26.0	0.836 4880	48135		0.492 0058	65964		0.213 4245	28612	
	26.5	0.831 6745		2648	0.498 6022		3717	0.216 2857		1617
		—	48759		—	65590		—	28450	
	27.0	0.826 7986	49380		0.505 1612	65211		0.219 1307	28286	
	27.5	0.821 8606	49999	−2717	0.511 6823	64828	+3673	0.221 9593	28119	+1598
	28.0	0.816 8607	50614		0.518 1651	64441		0.224 7712	27951	
	28.5	0.811 7993	51226	2786	0.524 6092	64049	3628	0.227 5663	27782	1579
	29.0	0.806 6767	51835		0.531 0141	63651		0.230 3445	27609	
	29.5	0.801 4932	52441	2854	0.537 3792	63248	3582	0.233 1054	27435	1559
	30.0	0.796 2491	53043		0.543 7040	62840		0.235 8489	27259	
	30.5	0.790 9448	53642	2921	0.549 9880	62428	3535	0.238 5748	27081	1538
	31.0	0.785 5806			0.556 2308			0.241 2829		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
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Okt. 31.0	0.785 5806			0.556 2308			0.241 2829		
		54239			62010			26899	
31.5	0.780 1567		−2987	0.562 4318		+3487	0.243 9728		+1517
		54831			61588			26717	
Nov. 1.0	0.774 6736			0.568 5906			0.246 6445		
		55420			61160			26532	
1.5	0.769 1316		3052	0.574 7066		3438	0.249 2977		1495
		56005			60728			26345	
2.0	0.763 5311			0.580 7794			0.251 9322		
		56587			60291			26156	
2.5	0.757 8724		3117	0.586 8085		3388	0.254 5478		1473
		57165			59849			25964	
3.0	0.752 1559			0.592 7934			0.257 1442		
		57740			59400			25770	
3.5	0.746 3819		3180	0.598 7334		3336	0.259 7212		1451
		58311			58947			25573	
4.0	0.740 5508			0.604 6281			0.262 2785		
		58877			58489			25375	
4.5	0.734 6631		3242	0.610 4770		3283	0.264 8160		1428
	—	59439		—	58027		—	25175	
5.0	0.728 7192			0.616 2797			0.267 3335		
		59997			57559			24972	
5.5	0.722 7195		−3303	0.622 0356		+3230	0.269 8307		+1405
		60551			57085			24767	
6.0	0.716 6644			0.627 7441			0.272 3074		
		61100			56607			24559	
6.5	0.710 5544		3363	0.633 4048		3176	0.274 7633		1381
		61645			56125			24349	
7.0	0.704 3899			0.639 0173			0.277 1982		
		62186			55637			24138	
7.5	0.698 1713		3423	0.644 5810		3121	0.279 6120		1357
		62720			55144			23924	
8.0	0.691 8993			0.650 0954			0.282 0044		
		63250			54647			23708	
8.5	0.685 5743		3482	0.655 5601		3065	0.284 3752		1333
		63776			54145			23490	
9.0	0.679 1967			0.660 9746			0.286 7242		
		64297			53638			23270	
9.5	0.672 7670		3539	0.666 3384		3007	0.289 0512		1308
	—	64811		—	53128		—	23048	
10.0	0.666 2859			0.671 6512			0.291 3560		
		65321			52612			22824	
10.5	0.659 7538		−3595	0.676 9124		+2949	0.293 6384		+1283
		65826			52092			22598	
11.0	0.653 1712			0.682 1216			0.295 8982		
		66325			51568			22371	
11.5	0.646 5387		3650	0.687 2784		2890	0.298 1353		1257
		66819			51039			22141	
12.0	0.639 8568			0.692 3823			0.300 3494		
		67308			50507			21910	
12.5	0.633 1260		3704	0.697 4330		2830	0.302 5404		1231
		67791			49971			21677	
13.0	0.626 3469			0.702 4301			0.304 7081		
		68269			49431			21442	
13.5	0.619 5200		3757	0.707 3732		2769	0.306 8523		1205
		68741			48887			21206	
14.0	0.612 6459			0.712 2619			0.308 9729		
		69208			48340			20969	
14.5	0.605 7251		3809	0.717 0959		2707	0.311 0698		1178
	—	69669		—	47788		—	20729	
15.0	0.598 7582			0.721 8747			0.313 1427		
		70125			47233			20488	
15.5	0.591 7457		−3859	0.726 5980		+2645	0.315 1915		+1151
		70576			46674			20245	
16.0	0.584 6881			0.731 2654			0.317 2160		
		71021			46112			20001	
16.5	0.577 5860		3908	0.735 8766		2581	0.319 2161		1124
		71460			45547			19756	
17.0	0.570 4400			0.740 4313			0.321 1917		
		71894			44978			19508	
17.5	0.563 2506		3956	0.744 9291		2517	0.323 1425		1096
		72323			44406			19260	
18.0	0.556 0183			0.749 3697			0.325 0685		
		72745			43830			19010	
18.5	0.548 7438		4003	0.753 7527		2452	0.326 9695		1068
		73162			43250			18758	
19.0	0.541 4276			0.758 0777			0.328 8453		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X	Diff.	Red. auf 1910.0	Y	Diff.	Red. auf 1910.0	Z	Diff.	Red. auf 1910.0
Nov. 19.0	0.541 4276	73574		0.758 0777	42668		0.328 8453	18506	
19.5	0.534 0702	73980	−4049	0.762 3445	42084	+2387	0.330 6959	18253	+1039
20.0	0.526 6722	74380		0.766 5529	41496		0.332 5212	17997	
20.5	0.519 2342	74775	4094	0.770 7025	40905	2321	0.334 3209	17741	1010
21.0	0.511 7567	75165		0.774 7930	40311		0.336 0950	17483	
21.5	0.504 2402	75549	4137	0.778 8241	39715	2254	0.337 8433	17224	981
22.0	0.496 6853	75927		0.782 7956	39115		0.339 5657	16964	
22.5	0.489 0926	76300	4179	0.786 7071	38512	2186	0.341 2621	16703	952
23.0	0.481 4626	76667		0.790 5583	37906		0.342 9324	16440	
23.5	0.473 7959	77029	4219	0.794 3489	37298	2118	0.344 5764	16177	922
24.0	0.466 0930	77385		0.798 0787	36687		0.346 1941	15912	
24.5	0.458 3545	77737	−4258	0.801 7474	36074	+2049	0.347 7853	15646	+892
25.0	0.450 5808	78082		0.805 3548	35458		0.349 3499	15379	
25.5	0.442 7726	78423	4296	0.808 9006	34838	1980	0.350 8878	15112	862
26.0	0.434 9303	78758		0.812 3844	34216		0.352 3990	14842	
26.5	0.427 0545	79087	4333	0.815 8060	33591	1910	0.353 8832	14572	831
27.0	0.419 1458	79411		0.819 1651	32964		0.355 3404	14300	
27.5	0.411 2047	79730	4368	0.822 4615	32334	1839	0.356 7704	14027	800
28.0	0.403 2317	80043		0.825 6949	31701		0.358 1731	13752	
28.5	0.395 2274	80350	4402	0.828 8650	31064	1768	0.359 5483	13477	769
29.0	0.387 1924	80652		0.831 9714	30425		0.360 8960	13200	
29.5	0.379 1272	80947	−4435	0.835 0139	29783	+1696	0.362 2160	12922	+737
30.0	0.371 0325	81237		0.837 9922	29138		0.363 5082	12642	
30.5	0.362 9088	81522	4466	0.840 9060	28491	1623	0.364 7724	12362	706
Dez. 1.0	0.354 7566	81800		0.843 7551	27841		0.366 0086	12080	
1.5	0.346 5766	82071	4496	0.846 5392	27188	1550	0.367 2166	11798	674
2.0	0.338 3695	82337		0.849 2580	26533		0.368 3964	11513	
2.5	0.330 1358	82597	4525	0.851 9113	25874	1476	0.369 5477	11227	642
3.0	0.321 8761	82850		0.854 4987	25214		0.370 6704	10941	
3.5	0.313 5911	83096	4552	0.857 0201	24550	1402	0.371 7645	10653	610
4.0	0.305 2815	83336		0.859 4751	23884		0.372 8298	10364	
4.5	0.296 9479	83570	−4578	0.861 8635	23216	+1328	0.373 8662	10075	+578
5.0	0.288 5909	83797		0.864 1851	22545		0.374 8737	9783	
5.5	0.280 2112	84016	4602	0.866 4396	21872	1253	0.375 8520	9490	545
6.0	0.271 8096	84229		0.868 6268	21197		0.376 8010	9197	
6.5	0.263 3867	84436	4625	0.870 7465	20520	1178	0.377 7207	8904	512
7.0	0.254 9431	84636		0.872 7985	19841		0.378 6111	8609	
7.5	0.246 4795	84828	4646	0.874 7826	19161	1102	0.379 4720	8313	479
8.0	0.237 9967			0.876 6987			0.380 3033		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	—			—			—		
Dez. 8.0	0.237 9967	85014		0.876 6987	18478		0.380 3033	8017	
8.5	0.229 4953	85192	—4666	0.878 5465	17794	+1026	0.381 1050	7720	+ 446
9.0	0.220 9761	85364		0.880 3259	17109		0.381 8770	7422	
9.5	0.212 4397	85528	4685	0.882 0368	16422	950	0.382 6192	7124	413
10.0	0.203 8869	85685		0.883 6790	15733		0.383 3316	6825	
10.5	0.195 3184	85836	4702	0.885 2523	15043	874	0.384 0141	6525	380
11.0	0.186 7348	85980		0.886 7566	14353		0.384 6666	6226	
11.5	0.178 1368	86116	4718	0.888 1919	13662	797	0.385 2892	5926	346
12.0	0.169 5252	86245		0.889 5581	12969		0.385 8818	5625	
12.5	0.160 9007		4732	0.890 8550		720	0.386 4443		313
	—	86367		—	12276		—	5323	
13.0	0.152 2640	86483		0.892 0826	11581		0.386 9766	5021	
13.5	0.143 6157	86592	—4745	0.893 2407	10886	+ 643	0.387 4787	4720	+ 279
14.0	0.134 9565	86694		0.894 3293	10190		0.387 9507	4418	
14.5	0.126 2871	86788	4756	0.895 3483	9493	566	0.388 3925	4116	245
15.0	0.117 6083	86876		0.896 2976	8796		0.388 8041	3813	
15.5	0.108 9207	86957	4766	0.897 1772	8099	488	0.389 1854	3510	212
16.0	0.100 2250	87031		0.897 9871	7401		0.389 5364	3207	
16.5	0.091 5219	87099	4774	0.898 7272	6703	410	0.389 8571	2904	178
17.0	0.082 8120	87160		0.899 3975	6004		0.390 1475	2601	
17.5	0.074 0960		4781	0.899 9979		332	0.390 4076		144
	—	87213		—	5305		—	2299	
18.0	0.065 3747	87260		0.900 5284	4606		0.390 6375	1996	
18.5	0.056 6487	87300	—4786	0.900 9890	3908	+ 254	0.390 8371	1693	+ 110
19.0	0.047 9187	87334		0.901 3798	3209		0.391 0064	1389	
19.5	0.039 1853	87361	4790	0.901 7007	2510	176	0.391 1453	1085	77
20.0	0.030 4492	87381		0.901 9517	1811		0.391 2538	783	
20.5	0.021 7111	87395	4792	0.902 1328	1113	98	0.391 3321	480	43
21.0	0.012 9716	87403		0.902 2441	415		0.391 3801	177	
21.5	0.004 2313		4793	0.902 2856		+ 20	0.391 3978		+ 9
	+	87404		—	284		—	125	
22.0	0.004 5091	87399		0.902 2572	982		0.391 3853	428	
22.5	0.013 2490		4792	0.902 1590		— 58	0.391 3425		— 25
	+	87387		—	1680		—	730	
23.0	0.021 9877	87370		0.901 9910	2378		0.391 2695	1032	
23.5	0.030 7247	87346	—4790	0.901 7532	3075	— 136	0.391 1663	1334	— 59
24.0	0.039 4593	87316		0.901 4457	3772		0.391 0329	1636	
24.5	0.048 1909	87279	4786	0.901 0685	4469	214	0.390 8693	1938	93
25.0	0.056 9188	87236		0.900 6216	5166		0.390 6755	2240	
25.5	0.065 6424	87187	4781	0.900 1050	5863	292	0.390 4515	2541	127
26.0	0.074 3611	87132		0.899 5187	6559		0.390 1974	2843	
26.5	0.083 0743	87071	4774	0.898 8628	7255	370	0.389 9131	3146	161
27.0	0.091 7814			0.898 1373			0.389 5985		

Mittl. Äquator und Mittl. Äquinoktium 1912.0

1912	X		Red. auf 1910.0	Y		Red. auf 1910.0	Z		Red. auf 1910.0
	+			−			−		
Dez. 27.0	0.091 7814	87003		0.898 1373	7951		0.389 5985	3447	
27.5	0.100 4817	86929	−4766	0.897 3422	8648	−448	0.389 2538	3748	−195
28.0	0.109 1746	86848		0.896 4774	9344		0.388 8790	4050	
28.5	0.117 8594	86760	4757	0.895 5430	10040	526	0.388 4740	4352	229
29.0	0.126 5354	86666		0.894 5390	10736		0.388 0388	4653	
29.5	0.135 2020	86565	4746	0.893 4654	11431	603	0.387 5735	4954	262
30.0	0.143 8585	86458		0.892 3223	12126		0.387 0781	5256	
30.5	0.152 5043	86343	4733	0.891 1097	12819	681	0.386 5525	5558	296
31.0	0.161 1386	86222		0.889 8278	13512		0.385 9967	5859	
31.5	0.169 7608	86094	4719	0.888 4766	14205	758	0.385 4108	6159	329
	+			−			−		
32.0	0.178 3702	85959		0.887 0561	14897		0.384 7949	6459	
32.5	0.186 9661	85816	−4704	0.885 5664	15589	−835	0.384 1490	6759	−363
33.0	0.195 5477	85667		0.884 0075	16279		0.383 4731	7059	
33.5	0.204 1144	85511	4687	0.882 3796	16969	912	0.382 7672	7359	396
34.0	0.212 6655	85347		0.880 6827	17658		0.382 0313	7658	
34.5	0.221 2002	85177	4669	0.878 9169	18346	988	0.381 2655	7956	429
35.0	0.229 7179	85000		0.877 0823	19032		0.380 4699	8254	
35.5	0.238 2179	84815	4649	0.875 1791	19716	1064	0.379 6445	8551	462
36.0	0.246 6994	84624		0.873 2075	20400		0.378 7894	8848	
36.5	0.255 1618		4628	0.871 1675		1139	0.377 9046		495

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 1.0	3 32 50.65	30 24.56	+21 35 52.9	+2 7 8.8	8.24192	+296	16 21.2
1.5	4 3 15.21	31 45.47	23 43 1.7	1 45 24.1	8.24488	259	16 27.9
2.0	4 35 0.68	32 57.94	25 28 25.8	1 19 48.6	8.24747	214	16 33.8
2.5	5 7 58.62	33 55.12	26 48 14.4	0 50 53.3	8.24961	163	16 38.7
3.0	5 41 53.74	34 30.67	27 39 7.7	+0 19 32.5	8.25124	105	16 42.5
3.5	6 16 24.41	34 40.44	27 58 40.2	−0 12 58.6	8.25229	+ 44	16 44.9
4.0	6 51 4.85	34 23.31	27 45 41.6	0 45 14.9	8.25273	− 19	16 45.9
4.5	7 25 28.16	33 41.73	27 0 26.7	1 15 52.0	8.25254	80	16 45.4
5.0	7 59 9.89	32 40.84	25 44 34.7	1 43 38.9	8.25174	139	16 43.6
5.5	8 31 50.73	31 27.36	24 0 55.8	−2 7 46.5	8.25035	−194	16 40.4
6.0	9 3 18.09	30 8.02	+21 53 9.3	2 27 48.7	8.24841	241	16 35.9
6.5	9 33 26.11	28 48.70	19 25 20.6	2 43 40.6	8.24600	282	16 30.4
7.0	10 2 14.81	27 33.82	16 41 40.0	2 55 32.6	8.24318	315	16 24.0
7.5	10 29 48.63	26 26.37	13 46 7.4	3 3 44.6	8.24003	338	16 16.9
8.0	10 56 15.00	25 28.13	10 42 22.8	3 8 41.7	8.23665	354	16 9.3
8.5	11 21 43.13	24 39.97	7 33 41.1	3 10 48.7	8.23311	361	16 1.5
9.0	11 46 23.10	24 2.11	4 22 52.4	3 10 29.5	8.22950	362	15 53.5
9.5	12 10 25.21	23 34.33	+ 1 12 22.9	3 8 4.2	8.22588	355	15 45.6
10.0	12 33 59.54	23 16.27	− 1 55 41.3	3 3 49.7	8.22233	343	15 37.9
10.5	12 57 15.81	23 7.31	4 59 31.0	−2 57 58.4	8.21890	−327	15 30.5
11.0	13 20 23.12	23 6.78	− 7 57 29.4	2 50 39.3	8.21563	306	15 23.5
11.5	13 43 29.90	23 13.88	10 48 8.7	2 41 58.5	8.21257	283	15 17.0
12.0	14 6 43.78	23 27.76	13 30 7.2	2 31 59.2	8.20974	258	15 11.1
12.5	14 30 11.54	23 47.34	16 2 6.4	2 20 43.4	8.20716	232	15 5.7
13.0	14 53 58.88	24 11.43	18 22 49.8	2 8 11.4	8.20484	205	15 0.9
13.5	15 18 10.31	24 38.58	20 31 1.2	1 54 24.3	8.20279	178	14 56.6
14.0	15 42 48.89	25 7.11	22 25 25.5	1 39 23.1	8.20101	151	14 53.0
14.5	16 7 56.00	25 35.16	24 4 48.6	1 23 11.4	8.19950	126	14 49.9
15.0	16 33 31.16	26 0.76	25 28 0.0	1 5 55.4	8.19824	101	14 47.3
15.5	16 59 31.92	26 22.00	26 33 55.4	−0 47 44.5	8.19723	− 77	14 45.2
16.0	17 25 53.92	26 37.12	−27 21 39.9	0 28 50.9	8.19646	54	14 43.7
16.5	17 52 31.04	26 44.74	27 50 30.8	−0 9 30.9	8.19592	34	14 42.6
17.0	18 19 15.78	26 44.09	28 0 1.7	+0 9 57.3	8.19558	− 14	14 41.9
17.5	18 45 59.87	26 35.11	27 50 4.4	0 29 14.5	8.19544	+ 5	14 41.6
18.0	19 12 34.98	26 18.33	27 20 49.9	0 48 2.1	8.19549	22	14 41.7
18.5	19 38 53.31	25 54.93	26 32 47.8	1 6 2.4	8.19571	40	14 42.1
19.0	20 4 48.24	25 26.57	25 26 45.4	1 23 0.9	8.19611	56	14 42.9
19.5	20 30 14.81	24 55.04	24 3 44.5	1 38 46.8	8.19667	72	14 44.1
20.0	20 55 9.85	24 22.26	22 24 57.7	1 53 12.2	8.19739	89	14 45.6
20.5	21 19 32.11		20 31 45.5		8.19828		14 47.4

Jan. 4 $2^h 23^m.3$ Vollmond. Jan. 10 $20^h 36^m.5$ Letzt. Viert. Jan. 19 $0^h 3^m.6$ Neumond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
	h m	h m s	s	s	° '	'	h m	° '	
Jan. 1 O	9 15.7	3 56 11	−74.90	160.23	+23 15.8	+10.6	3 22.0	+18 27	6.4
U	21 46.5	4 29 2	−76.67	167.76	+25 10.7	+ 8.5	3 33.9	+20 38	6.5
2 O	10 18.7	5 3 16	−78.19	174.29	+26 38.7	+ 6.1	4 18.7	+24 6	6.1
U	22 52.0	5 38 40	−79.27	179.08	+27 35.7	+ 3.3	4 47.3	+27 45	6.0
3 O	11 26.0	6 14 46	−79.81	181.52	+27 58.5	+ 0.4	5 31.7	+26 52	5.7
—	—	—	—	—	—	—	5 47.8	+27 36	4.6
4 U	0 0.3	6 51 5	−79.73	181.26	+27 45.7	− 2.6	6 39.2	+29 4	5.5
O	12 34.2	7 27 5	+79.05	178.21	+26 57.5	− 5.4	6 57.9	+29 29	5.9
5 U	1 7.3	8 2 16	+77.86	173.03	+25 36.0	− 8.1	7 56.4	+25 20	6.2
O	13 39.2	8 36 16	+76.31	166.38	+23 44.7	−10.4	8 15.3	+24 18	5.9
6 U	2 9.8	9 8 50	+74.55	158.96	+21 27.9	−12.3	9 5.3	+22 21	6.1
O	14 38.8	9 39 54	+72.72	151.42	+18 50.5	−13.8	9 19.8	+20 10	6.6
7 U	3 6.4	10 9 30	+70.95	144.28	+15 57.2	−15.0	10 2.5	+17 12	3.6
O	15 32.5	10 37 44	+69.32	137.85	+12 52.6	−15.8	10 17.1	+15 25	6.1
8 U	3 57.5	11 4 45	+67.89	132.30	+ 9 40.5	−16.2	11 0.5	+ 7 49	4.7
O	16 21.5	11 30 46	+66.70	127.74	+ 6 24.5	−16.4	11 9.5	+ 8 33	5.8
9 U	4 44.7	11 55 57	+65.75	124.17	+ 3 7.4	−16.4	11 46.1	+ 2 16	3.8
O	17 7.2	12 20 32	+65.05	121.57	− 0 8.3	−16.2	12 5.2	+ 2 24	6.2
10 U	5 29.3	12 44 40	+64.58	119.89	− 3 20.4	−15.8	12 37.2	− 0 58	2.9
O	17 51.2	13 8 33	+64.36	119.07	− 6 27.2	−15.3	12 48.7	− 3 5	6.1
11 U	6 12.9	13 32 21	+64.34	119.04	− 9 26.9	−14.6	13 28.3	− 9 43	5.4
O	18 34.8	13 56 13	+64.53	119.73	−12 18.1	−13.9	13 41.2	−11 59	5.6
12 U	6 56.8	14 20 17	+64.88	121.06	−14 59.4	−13.0	14 14.3	−12 58	4.5
O	19 19.1	14 44 39	+65.36	122.92	−17 29.4	−12.0	14 32.3	−11 56	6.2
13 U	7 41.8	15 9 27	+65.94	125.19	−19 46.6	−10.9	15 1.4	−21 41	6.1
O	20 5.1	15 34 44	+66.60	127.72	−21 49.7	− 9.6	15 11.3	−22 4	5.8
14 U	8 28.9	16 0 31	+67.27	130.35	−23 37.3	− 8.3	15 58.0	−25 37	4.9
O	20 53.2	16 26 50	+67.91	132.92	−25 8.0	− 6.8	16 8.4	−24 12	6.3
15 U	9 17.9	16 53 39	+68.47	135.20	−26 20.6	− 5.3	16 38.8	−27 17	6.4
O	21 43.1	17 20 52	+68.92	137.01	−27 14.0	− 3.6	17 6.9	−27 39	6.1
16 U	10 8.6	17 48 23	+69.19	138.18	−27 47.3	− 1.9			
O	22 34.2	18 16 4	+69.26	138.59	−27 59.9	− 0.2			
17 U	10 59.9	18 43 46	+69.15	138.20	−27 51.6	+ 1.6			
O	23 25.4	19 11 19	+68.82	137.02	−27 22.7	+ 3.3			
18 U	11 50.6	19 38 33	+68.32	135.13	−26 33.6	+ 4.9			
—	—	—	—	—	—	—			
19 O	0 15.4	20 5 21	−67.69	132.82	−25 25.2	+ 6.5			
U	12 39.6	20 31 38	−66.95	130.03	−23 58.7	+ 7.9			
20 O	1 3.3	20 57 20	−66.16	127.04	−22 15.6	+ 9.2			
U	13 26.3	21 22 25	−65.37	124.03	−20 17.3	+10.4			

Januar 4 3^h Perigäum. Januar 17 15^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Jan. 20.0	20 55 9.85	24 22.26	−22 24 57.7	+1 53 12.2	8.19739	+ 89	14 45.6
20.5	21 19 32.11	23 50.11	20 31 45.5	2 6 12.5	8.19828	105	14 47.4
21.0	21 43 22.22	23 20.17	18 25 33.0	2 17 45.9	8.19933	121	14 49.5
21.5	22 6 42.39	22 53.83	16 7 47.1	2 27 52.6	8.20054	139	14 52.0
22.0	22 29 36.22	22 32.33	13 39 54.5	2 36 33.6	8.20193	156	14 54.9
22.5	22 52 8.55	22 16.60	11 3 20.9	2 43 50.1	8.20349	175	14 58.1
23.0	23 14 25.15	22 7.48	8 19 30.8	2 49 43.6	8.20524	193	15 1.7
23.5	23 36 32.63	22 5.62	5 29 47.2	2 54 14.0	8.20717	211	15 5.7
24.0	23 58 38.25	22 11.65	− 2 35 33.2	2 57 19.8	8.20928	231	15 10.1
24.5	0 20 49.90	22 26.11	+ 0 21 46.6	+2 58 57.6	8.21159	+250	15 15.0
25.0	0 43 16.01	22 49.48	+ 3 20 44.2	2 59 1.2	8.21409	266	15 20.3
25.5	1 6 5.49	23 22.14	6 19 45.4	2 57 21.6	8.21675	282	15 25.9
26.0	1 29 27.63	24 4.32	9 17 7.0	2 53 46.8	8.21957	296	15 32.0
26.5	1 53 31.95	24 56.06	12 10 53.8	2 48 1.6	8.22253	307	15 38.3
27.0	2 18 28.01	25 56.91	14 58 55.4	2 39 47.6	8.22560	314	15 44.9
27.5	2 44 24.92	27 5.81	17 38 43.0	2 28 46.1	8.22874	316	15 51.8
28.0	3 11 30.73	28 20.86	20 7 29.1	2 14 37.7	8.23190	312	15 58.8
28.5	3 39 51.59	29 38.99	22 22 6.8	1 57 6.0	8.23502	303	16 5.7
29.0	4 9 30.58	30 55.95	24 19 12.8	1 36 3.8	8.23805	287	16 12.5
29.5	4 40 26.53	32 6.28	25 55 16.6	+1 11 35.6	8.24092	+263	16 18.9
30.0	5 12 32.81	33 3.93	+27 6 52.2	0 44 3.6	8.24355	231	16 24.9
30.5	5 45 36.74	33 43.25	27 50 55.8	+0 14 10.0	8.24586	193	16 30.1
31.0	6 19 19.99	34 0.10	28 5 5.8	−0 17 5.3	8.24779	149	16 34.5
31.5	6 53 20.09	33 52.75	27 48 0.5	0 48 28.8	8.24928	98	16 37.9
Febr. 1.0	7 27 12.84	33 22.58	26 59 31.7	1 18 43.5	8.25026	+ 43	16 40.2
1.5	8 0 35.42	32 33.55	25 40 48.2	1 46 40.2	8.25069	− 15	16 41.2
2.0	8 33 8.97	31 31.26	23 54 8.0	2 11 24.5	8.25054	72	16 40.8
2.5	9 4 40.23	30 21.73	21 42 43.5	2 32 20.5	8.24982	129	16 39.2
3.0	9 35 1.96	29 10.49	19 10 23.0	2 49 12.1	8.24853	182	16 36.2
3.5	10 4 12.45	28 1.98	16 21 10.9	−3 1 58.8	8.24671	−230	16 32.0
4.0	10 32 14.43	26 59.42	+13 19 12.1	3 10 52.2	8.24441	272	16 26.8
4.5	10 59 13.85	26 4.83	10 8 19.9	3 16 11.1	8.24169	307	16 20.6
5.0	11 25 18.68	25 19.28	6 52 8.8	3 18 17.6	8.23862	334	16 13.7
5.5	11 50 37.96	24 43.24	3 33 51.2	3 17 34.5	8.23528	352	16 6.3
6.0	12 15 21.20	24 16.72	+ 0 16 16.7	3 14 24.0	8.23176	362	15 58.5
6.5	12 39 37.92	23 59.36	− 2 58 7.3	3 9 5.2	8.22814	364	15 50.5
7.0	13 3 37.28	23 50.62	6 7 12.5	3 1 54.3	8.22450	360	15 42.6
7.5	13 27 27.90	23 49.85	9 9 6.8	2 53 4.4	8.22090	349	15 34.8
8.0	13 51 17.75	23 56.24	12 2 11.2	2 42 45.0	8.21741	332	15 27.3
8.5	14 15 13.99		14 44 56.2		8.21409		15 20.3

Januar 26 21ʰ 45ᵐ.0 Erstes Viertel. Februar 2 12ʰ 51ᵐ.7 Vollmond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Jan. 20	O	1 3.3	20 57 20	−66.16	127.04	−22 15.6	+ 9.2			
	U	13 26.3	21 22 25	−65.37	124.03	−20 17.3	+10.4			
21	O	1 48.8	21 46 56	−64.61	121.18	−18 5.4	+11.5			
	U	14 10.7	22 10 54	−63.94	118.64	−15 41.6	+12.4			
22	O	2 32.2	22 34 24	−63.38	116.52	−13 7.5	+13.2			
	U	14 53.3	22 57 31	−62.98	114.92	−10 24.5	+13.9			
23	O	3 14.1	23 20 23	−62.74	113.92	− 7 34.3	+14.5	22 48.8	−12 5	5.8
	U	15 34.8	23 43 8	−62.69	113.58	− 4 38.2	+14.9	23 0.6	− 8 10	5.4
24	O	3 55.6	0 5 53	−62.83	113.98	− 1 37.8	+15.2	23 27.0	− 4 34	6.5
	U	16 16.5	0 28 48	−63.20	115.15	+ 1 25.4	+15.3	23 48.4	− 3 39	6.1
25	O	4 37.7	0 52 2	−63.80	117.16	+ 4 29.8	+15.4	0 20.9	+ 1 27	6.0
	U	16 59.3	1 15 44	−64.63	120.04	+ 7 33.8	+15.3	0 46.8	+ 2 54	6.5
26	O	5 21.7	1 40 7	−65.69	123.83	+10 35.3	+15.0	1 9.1	+ 7 7	5.4
	U	17 44.9	2 5 22	−66.98	128.53	+13 32.2	+14.5	1 23.8	+ 7 30	6.4
27	O	6 9.1	2 31 38	−68.48	134.14	+16 22.0	+13.8	1 57.8	+13 3	6.3
	U	18 34.6	2 59 7	−70.15	140.55	+19 1.8	+12.8	2 8.2	+14 52	5.8
28	O	7 1.4	3 27 57	−71.93	147.58	+21 28.2	+11.5	2 53.0	+20 19	5.8
	U	19 29.6	3 58 13	−73.75	154.94	+23 37.5	+10.0	3 3.4	+18 27	6.5
29	O	7 59.3	4 29 58	−75.49	162.18	+25 25.7	+ 8.0	3 51.8	+22 55	6.0
	U	20 30.3	5 3 5	−77.01	168.71	+26 48.8	+ 5.8	4 5.5	+26 15	5.5
30	O	9 2.6	5 37 22	−78.20	173.89	+27 42.8	+ 3.2	4 59.1	+27 34	6.5
	U	21 35.7	6 12 32	−78.91	177.13	+28 4.7	+ 0.4	5 15.5	+27 52	6.4
31	O	10 9.2	6 48 7	−79.08	178.03	+27 52.7	− 2.4	6 9.8	+29 32	4.4
	U	22 42.6	7 23 35	−78.69	176.53	+27 6.2	− 5.3	6 15.6	+29 35	6.3
Febr. 1	O	11 15.5	7 58 33	−77.80	172.85	+25 46.5	− 8.0	7 19.1	+27 49	5.7
	U	23 47.5	8 32 36	−76.52	167.54	+23 56.2	−10.4	7 30.5	+27 6	4.3
2	O	12 18.3	9 5 27	−74.99	160.97	+21 39.1	−12.4	8 26.3	+24 23	5.7
—		—	—	—	—	—	—	9 2.4	+23 20	6.3
3	U	0 47.8	9 37 0	+73.35	154.23	+18 59.6	−14.1	9 39.6	+19 16	6.5
	O	13 15.9	10 7 13	+71.72	147.64	+16 2.5	−15.4	10 0.9	+16 11	6.3
4	U	1 42.8	10 36 9	+70.19	141.58	+12 52.4	−16.3	10 27.5	+14 35	5.8
	O	14 8.6	11 3 57	+68.84	136.26	+ 9 33.6	−16.8	10 44.7	+11 1	5.3
5	U	2 33.4	11 30 46	+67.69	131.80	+ 6 10.0	−17.1	11 16.6	+ 6 31	4.2
	O	14 57.3	11 56 46	+66.77	128.26	+ 2 45.0	−17.0	11 41.4	+ 7 1	4.2
6	U	3 20.7	12 22 9	+66.09	125.64	− 0 38.3	−16.8	12 14.2	− 0 18	5.9
	O	15 43.6	12 47 6	+65.64	123.90	− 3 57.5	−16.4	12 37.2	− 0 58	2.9
7	U	4 6.2	13 11 47	+65.42	122.98	− 7 10.3	−15.8	13 4.0	− 8 31	5.6
	O	16 28.8	13 36 21	+65.40	122.84	−10 14.8	−15.0	13 20.0	− 4 42	5.7
8	U	4 51.4	14 0 58	+65.56	123.38	−13 9.4	−14.1	13 59.7	−14 33	6.4
	O	17 14.1	14 25 44	+65.89	124.50	−15 52.4	−13.1	14 14.3	−12 58	4.5

Februar 1 15h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 8.0	13 51 17.75	23 56.24	−12 2 11.2	−2 42 45.0	8.21741	−332	15 27.3
8.5	14 15 13.99	24 8.80	14 44 56.2	2 31 4.1	8.21409	311	15 20.3
9.0	14 39 22.79	24 26.45	17 16 0.3	2 18 7.1	8.21098	286	15 13.7
9.5	15 3 49.24	24 47.84	19 34 7.4	2 3 58.0	8.20812	257	15 7.7
10.0	15 28 37.08	25 11.51	21 38 5.4	1 48 40.7	8.20555	228	15 2.3
10.5	15 53 48.59	25 35.77	23 26 46.1	1 32 19.3	8.20327	196	14 57.6
11.0	16 19 24.36	25 58.83	24 59 5.4	1 14 59.6	8.20131	164	14 53.6
11.5	16 45 23.19	26 18.89	26 14 5.0	0 56 49.8	8.19967	133	14 50.2
12.0	17 11 42.08	26 34.23	27 10 54.8	0 37 59.4	8.19834	100	14 47.5
12.5	17 38 16.31	26 43.43	27 48 54.2	−0 18 41.0	8.19734	− 70	14 45.4
13.0	18 4 59.74	26 45.50	−28 7 35.2	+0 0 49.8	8.19664	41	14 44.0
13.5	18 31 45.24	26 40.04	28 6 45.4	0 20 17.2	8.19623	− 14	14 43.2
14.0	18 58 25.28	26 27.22	27 46 28.2	0 39 24.3	8.19609	+ 13	14 42.9
14.5	19 24 52.50	26 7.83	27 7 3.9	0 57 55.3	8.19622	36	14 43.2
15.0	19 51 0.33	25 43.08	26 9 8.6	1 15 35.2	8.19658	57	14 43.9
15.5	20 16 43.41	25 14.53	24 53 33.4	1 32 11.6	8.19715	77	14 45.1
16.0	20 41 57.94	24 43.91	23 21 21.8	1 47 34.7	8.19792	96	14 46.6
16.5	21 6 41.85	24 12.93	21 33 47.1	2 1 37.7	8.19888	111	14 48.6
17.0	21 30 54.78	23 43.17	19 32 9.4	2 14 15.6	8.19999	123	14 50.9
17.5	21 54 37.95	23 16.06	17 17 53.8	+2 25 24.8	8.20122	+136	14 53.4
18.0	22 17 54.01	22 52.77	−14 52 29.0	2 35 4.1	8.20258	147	14 56.2
18.5	22 40 46.78	22 34.37	12 17 24.9	2 43 12.8	8.20405	157	14 59.2
19.0	23 3 21.15	22 21.67	9 34 12.1	2 49 49.5	8.20562	166	15 2.5
19.5	23 25 42.82	22 15.34	6 44 22.6	2 54 53.9	8.20728	174	15 6.0
20.0	23 47 58.16	22 15.97	3 49 28.7	2 58 24.3	8.20902	182	15 9.6
20.5	0 10 14.13	22 24.07	− 0 51 4.4	3 0 17.8	8.21084	189	15 13.4
21.0	0 32 38.20	22 40.06	+ 2 9 13.4	3 0 30.9	8.21273	197	15 17.4
21.5	0 55 18.26	23 4.27	5 9 44.3	2 58 57.8	8.21470	205	15 21.6
22.0	1 18 22.53	23 36.89	8 8 42.1	2 55 30.5	8.21675	212	15 25.9
22.5	1 41 59.42	24 17.97	11 4 12.6	+2 50 0.5	8.21887	+218	15 30.4
23.0	2 6 17.39	25 7.23	+13 54 13.1	2 42 15.9	8.22105	224	15 35.1
23.5	2 31 24.62	26 3.96	16 36 29.0	2 32 4.4	8.22329	228	15 40.0
24.0	2 57 28.58	27 6.86	19 8 33.4	2 19 13.3	8.22557	231	15 44.9
24.5	3 24 35.44	28 13.85	21 27 46.7	2 3 31.5	8.22788	232	15 50.0
25.0	3 52 49.29	29 21.87	23 31 18.2	1 44 52.2	8.23020	231	15 55.0
25.5	4 22 11.16	30 27.10	25 16 10.4	1 23 15.8	8.23251	225	16 0.1
26.0	4 52 38.26	31 24.87	26 39 26.2	0 58 52.9	8.23476	215	16 5.1
26.5	5 24 3.13	32 10.48	27 38 19.1	0 32 7.4	8.23691	201	16 9.9
27.0	5 56 13.61	32 39.73	28 10 26.5	+0 3 37.8	8.23892	183	16 14.4
27.5	6 28 53.34		28 14 4.3		8.24075		16 18.5

Febr. 9 $13^{h}\,44^{m}.4$ Letzt. Viert. Febr. 17 $18^{h}\,37^{m}.7$ Neumond. Febr. 25 $8^{h}\,20^{m}.3$ Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
	h m	h m s	s	s	° '	'	h m	° '	
Febr. 8 U	4 51.4	14 0 58	+65.56	123.38	−13 9.4	−14.1	13 59.7	−14 33	6.4
O	17 14.1	14 25 44	+65.89	124.50	−15 52.4	−13.1	14 14.3	−12 58	4.5
9 U	5 37.1	14 50 47	+66.33	126.12	−18 22.4	−11.9	14 45.8	−15 38	5.4
O	18 0.5	15 16 11	+66.87	128.10	−20 38.1	−10.7	15 8.3	−19 19	6.0
10 U	6 24.3	15 42 1	+67.45	130.29	−22 38.1	− 9.3	15 48.7	−23 43	5.3
O	18 48.5	16 8 17	+68.04	132.52	−24 21.2	− 7.9	15 58.6	−24 29	6.4
11 U	7 13.2	16 34 59	+68.57	134.64	−25 46.3	− 6.3	16 26.0	−26 21	6.2
O	19 38.2	17 2 6	+69.03	136.45	−26 52.4	− 4.7	16 54.6	−24 58	6.3
12 U	8 3.6	17 29 32	+69.35	137.78	−27 38.5	− 3.0	17 26.3	−26 12	6.0
O	20 29.2	17 57 10	+69.51	138.50	−28 4.1	− 1.3	17 37.7	−27 51	6.3
13 U	8 54.9	18 24 53	+69.47	138.52	−28 8.8	+ 0.5	18 16.4	−28 28	6.1
O	21 20.5	18 52 32	+69.25	137.81	−27 52.6	+ 2.2	18 40.1	−27 5	3.3
14 U	9 45.9	19 19 58	+68.86	136.41	−27 15.8	+ 3.9			
O	22 11.0	19 47 4	+68.30	134.42	−26 19.1	+ 5.5			
15 U	10 35.6	20 13 44	+67.62	131.98	−25 3.3	+ 7.1			
O	22 59.7	20 39 52	+66.87	129.24	−23 29.7	+ 8.5			
16 U	11 23.2	21 5 27	+66.08	126.37	−21 39.6	+ 9.8			
O	23 46.2	21 30 27	+65.30	123.56	−19 34.6	+11.0			
17 U	12 8.6	21 54 55	+64.58	120.94	−17 16.2	+12.0			
—	—	—	—	—	—	—			
18 O	0 30.6	22 18 53	−63.94	118.74	−14 46.1	+12.9			
U	12 52.1	22 42 25	−63.42	116.84	−12 5.9	+13.7			
19 O	1 13.3	23 5 38	−63.05	115.45	− 9 17.2	+14.4			
U	13 34.2	23 28 38	−62.84	114.62	− 6 21.7	+14.9			
20 O	1 55.1	23 51 31	−62.82	114.43	− 3 21.1	+15.2			
U	14 16.0	0 14 27	−62.99	114.92	− 0 17.1	+15.4			
21 O	2 37.1	0 37 33	−63.37	116.15	+ 2 48.6	+15.5			
U	14 58.5	1 0 59	−63.98	118.14	+ 5 54.3	+15.4			
22 O	3 20.3	1 24 53	−64.79	120.92	+ 8 58.0	+15.2			
U	15 42.9	1 49 26	−65.82	124.52	+11 57.5	+14.7			
23 O	4 6.2	2 14 47	−67.04	128.90	+14 50.7	+14.1	1 46.2	+10 36	6.0
U	16 30.4	2 41 5	−68.43	134.04	+17 34.9	+13.2	1 57.8	+13 3	6.3
24 O	4 55.8	3 8 29	−69.96	139.83	+20 7.4	+12.1	2 26.0	+17 19	6.4
U	17 22.4	3 37 5	−71.58	146.06	+22 25.2	+10.8	2 50.9	+17 59	6.0
25 O	5 50.2	4 6 58	−73.20	152.45	+24 24.8	+ 9.1	3 23.3	+22 30	6.1
U	18 19.3	4 38 6	−74.72	158.62	+26 2.9	+ 7.2	3 51.8	+22 55	6.0
26 O	6 49.5	5 10 24	−76.04	164.07	+27 16.1	+ 5.0	4 18.7	+24 6	6.1
U	19 20.7	5 43 40	−77.03	168.30	+28 1.3	+ 2.5	4 47.3	+27 45	6.0
27 O	7 52.6	6 17 38	−77.61	170.89	+28 16.1	− 0.1	5 33.7	+29 10	5.9
U	20 24.9	6 51 55	−77.72	171.56	+27 59.1	− 2.8	5 51.0	+28 56	6.4

Febr. 14 0^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Febr. 27.0	5 56 13.61	32 39.73	+28 10 26.5	+0 3 37.8	8.23892	+183	16 14.4
27.5	6 28 53.34	32 49.90	28 14 4.3	−0 25 45.5	8.24075	158	16 18.5
28.0	7 1 43.24	32 40.31	27 48 18.8	0 55 4.2	8.24233	128	16 22.1
28.5	7 34 23.55	32 12.46	26 53 14.6	1 23 18.2	8.24361	95	16 25.1
29.0	8 6 36.01	31 29.78	25 29 56.4	1 49 33.6	8.24456	57	16 27.2
29.5	8 38 5.79	30 36.80	23 40 22.8	2 13 5.9	8.24513	+ 14	16 28.5
März 1.0	9 8 42.59	29 38.31	21 27 16.9	2 33 23.9	8.24527	− 31	16 28.8
1.5	9 38 20.90	28 38.72	18 53 53.0	2 50 9.2	8.24496	76	16 28.1
2.0	10 6 59.62	27 41.66	16 3 43.8	3 3 15.3	8.24420	121	16 26.3
2.5	10 34 41.28	26 49.80	13 0 28.5	−3 12 45.2	8.24299	−165	16 23.6
3.0	11 1 31.08	26 4.94	+ 9 47 43.3	3 18 48.0	8.24134	206	16 19.9
3.5	11 27 36.02	25 28.10	6 28 55.3	3 21 36.9	8.23928	242	16 15.2
4.0	11 53 4.12	24 59.73	+ 3 7 18.4	3 21 27.1	8.23686	272	16 9.8
4.5	12 18 3.85	24 39.87	− 0 14 8.7	3 18 35.1	8.23414	297	16 3.7
5.0	12 42 43.72	24 28.27	3 32 43.8	3 13 17.1	8.23117	315	15 57.2
5.5	13 7 11.99	24 24.40	6 46 0.9	3 5 47.8	8.22802	325	15 50.3
6.0	13 31 36.39	24 27.60	9 51 48.7	2 56 20.7	8.22477	330	15 43.2
6.5	13 56 3.99	24 36.99	12 48 9.4	2 45 7.3	8.22147	327	15 36.0
7.0	14 20 40.98	24 51.55	15 33 16.7	2 32 18.2	8.21820	317	15 29.0
7.5	14 45 32.53	25 10.00	18 5 34.9	−2 18 2.4	8.21503	−303	15 22.3
8.0	15 10 42.53	25 30.91	−20 23 37.3	2 2 28.5	8.21200	283	15 15.9
8.5	15 36 13.44	25 52.72	22 26 5.8	1 45 44.7	8.20917	259	15 9.9
9.0	16 2 6.16	26 13.69	24 11 50.5	1 28 0.3	8.20658	232	15 4.5
9.5	16 28 19.85	26 32.07	25 39 50.8	1 9 25.0	8.20426	201	14 59.7
10.0	16 54 51.92	26 46.24	26 49 15.8	0 50 10.7	8.20225	169	14 55.5
10.5	17 21 38.16	26 54.77	27 39 26.5	0 30 30.1	8.20056	135	14 52.0
11.0	17 48 32.93	26 56.73	28 9 56.6	−0 10 37.9	8.19921	101	14 49.3
11.5	18 15 29.66	26 51.61	28 20 34.5	+0 9 10.6	8.19820	66	14 47.2
12.0	18 42 21.27	26 39.52	28 11 23.9	0 28 40.7	8.19754	− 32	14 45.9
12.5	19 9 0.79	26 21.11	27 42 43.2	+0 47 37.8	8.19722	+ 1	14 45.2
13.0	19 35 21.90	25 57.49	−26 55 5.4	1 5 49.0	8.19723	32	14 45.2
13.5	20 1 19.39	25 30.09	25 49 16.4	1 23 3.6	8.19755	61	14 45.9
14.0	20 26 49.48	25 0.49	24 26 12.8	1 39 12.7	8.19816	88	14 47.1
14.5	20 51 49.97	24 30.33	22 47 0.1	1 54 9.9	8.19904	113	14 48.9
15.0	21 16 20.30	24 1.13	20 52 50.2	2 7 49.9	8.20017	135	14 51.2
15.5	21 40 21.43	23 34.27	18 45 0.3	2 20 9.0	8.20152	154	14 54.0
16.0	22 3 55.70	23 10.95	16 24 51.3	2 31 4.2	8.20306	169	14 57.2
16.5	22 27 6.65	22 52.16	13 53 47.1	2 40 33.2	8.20475	181	15 0.7
17.0	22 49 58.81	22 38.71	11 13 13.9	2 48 32.6	8.20656	190	15 4.4
17.5	23 12 37.52		8 24 41.3		8.20846		15 8.4

März 2 23h 35.5m Vollmond. März 10 8h 49.2m Letztes Viertel.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
	h m	h m s	s	s	° ′	′	h m	° ′	
Febr. 27 O	7 52.6	6 17 38	−77.61	170.89	+28 16.1	− 0.1	5 33.7	+29 10	5.9
U	20 24.9	6 51 55	−77.72	171.56	+27 59.1	− 2.8	5 51.0	+28 56	6.4
28 O	8 57.0	7 26 7	−77.37	170.26	+27 10.0	− 5.4	6 39.2	+29 4	5.5
U	21 28.7	7 59 53	−76.61	167.20	+25 49.7	− 7.9	7 5.9	+27 0	5.6
29 O	9 59.6	8 32 53	−75.51	162.82	+24 0.4	−10.2	7 55.6	+25 38	6.1
U	22 29.6	9 4 55	−74.20	157.57	+21 45.2	−12.2	8 5.2	+25 47	5.9
März 1 O	10 58.5	9 35 51	−72.78	151.97	+19 7.7	−13.9	9 2.4	+23 20	6.3
U	23 26.3	10 5 40	−71.38	146.45	+16 12.0	−15.3	9 8.6	+21 39	6.1
2 O	11 53.0	10 34 25	−70.06	141.32	+13 2.3	−16.3	10 0.9	+16 11	6.3
—	—	—	—	—	—	—	10 17.1	+15 25	6.1
3 U	0 18.7	11 2 12	+68.90	136.63	+ 9 42.6	−17.0	10 44.7	+11 1	5.3
O	12 43.7	11 29 10	+67.91	132.88	+ 6 16.8	−17.3	11 9.5	+ 8 33	5.8
4 U	1 7.9	11 55 27	+67.14	129.95	+ 2 48.3	−17.4	11 46.1	+ 2 16	3.8
O	13 31.6	12 21 13	+66.59	127.84	− 0 39.6	−17.2	12 5.2	+ 2 24	6.2
5 U	1 55.0	12 46 39	+66.26	126.52	− 4 4.0	−16.8	12 43.0	− 5 49	6.3
O	14 18.3	13 11 53	+66.13	125.96	− 7 22.3	−16.2	12 55.1	− 3 20	5.7
6 U	2 41.4	13 37 5	+66.20	126.10	−10 32.2	−15.4	13 28.3	− 9 43	5.4
O	15 4.6	14 2 22	+66.43	126.84	−13 31.6	−14.4	13 42.6	− 9 16	6.2
7 U	3 28.1	14 27 50	+66.80	128.09	−16 18.7	−13.3	14 14.4	−12 58	4.5
O	15 51.8	14 53 37	+67.27	129.75	−18 51.7	−12.1	14 44.5	−13 47	5.4
8 U	4 15.9	15 19 44	+67.82	131.66	−21 9.0	−10.8	15 11.3	−22 4	5.8
O	16 40.4	15 46 16	+68.38	133.68	−23 9.3	− 9.3	15 32.6	−22 51	6.0
9 U	5 5.3	16 13 11	+68.91	135.64	−24 51.4	− 7.7	16 9.6	−25 15	6.0
O	17 30.5	16 40 29	+69.38	137.35	−26 14.1	− 6.1	16 24.9	−24 55	4.8
10 U	5 56.1	17 8 5	+69.73	138.67	−27 16.5	− 4.3	17 6.9	−27 39	6.1
O	18 21.9	17 35 54	+69.93	139.44	−27 58.1	− 2.6	17 17.8	−28 4	5.4
11 U	6 47.8	18 3 49	+69.97	139.58	−28 18.4	− 0.8	18 2.5	−28 28	4.7
O	19 13.6	18 31 41	+69.81	139.03	−28 17.4	+ 1.0	18 16.4	−28 28	6.1
12 U	7 39.2	18 59 23	+69.47	137.81	−27 55.3	+ 2.7	18 49.8	−26 24	2.1
O	20 4.6	19 26 47	+68.97	136.01	−27 12.7	+ 4.4	19 7.8	−26 3	5.9
13 U	8 29.5	19 53 47	+68.34	133.73	−26 10.3	+ 6.0	19 50.4	−26 32	4.8
O	20 54.0	20 20 17	+67.61	131.12	−24 49.2	+ 7.5	20 9.8	−27 18	5.8
14 U	9 17.9	20 46 15	+66.84	128.36	−23 10.7	+ 8.9	20 41.1	−21 50	5.8
O	21 41.3	21 11 39	+66.06	125.59	−21 15.9	+10.2	21 3.5	−21 33	5.3
15 U	10 4.1	21 36 31	+65.30	122.97	−19 6.4	+11.4			
O	22 26.5	22 0 53	+64.62	120.61	−16 43.7	+12.4			
16 U	10 48.4	22 24 49	+64.05	118.64	−14 9.3	+13.3			
O	23 9.9	22 48 24	+63.60	117.14	−11 24.7	+14.1			
17 U	11 31.2	23 11 43	+63.30	116.16	− 8 31.6	+14.7			
O	23 52.4	23 34 54	+63.18	115.77	− 5 31.6	+15.2			

Februar 29 22^h Perigäum. März 12 18^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
März 17.0	22 49 58.81	22 38.71	−11 13 13.9	+2 48 32.6	8.20656	+190	15 4.4
17.5	23 12 37.52	22 31.29	8 24 41.3	2 54 59.3	8.20846	196	15 8.4
18.0	23 35 8.81	22 30.44	5 29 42.0	2 59 49.5	8.21042	200	15 12.5
18.5	23 57 39.25	22 36.67	− 2 29 52.5	3 2 57.8	8.21242	201	15 16.7
19.0	0 20 15.92	22 50.30	+ 0 33 5.3	3 4 18.6	8.21443	199	15 21.0
19.5	0 43 6.22	23 11.63	3 37 23.9	3 3 44.6	8.21642	196	15 25.2
20.0	1 6 17.85	23 40.82	6 41 8.5	3 1 7.5	8.21838	191	15 29.4
20.5	1 29 58.67	24 17.78	9 42 16.0	2 56 18.4	8.22029	185	15 33.5
21.0	1 54 16.45	25 2.25	12 38 34.4	2 49 7.8	8.22214	179	15 37.5
21.5	2 19 18.70	25 53.50	15 27 42.2	+2 39 25.3	8.22393	+171	15 41.4
22.0	2 45 12.20	26 50.28	+18 7 7.5	2 27 2.2	8.22564	164	15 45.1
22.5	3 12 2.48	27 50.70	20 34 9.7	2 11 51.7	8.22728	156	15 48.6
23.0	3 39 53.18	28 52.08	22 46 1.4	1 53 51.4	8.22884	149	15 52.1
23.5	4 8 45.26	29 50.99	24 39 52.8	1 33 4.6	8.23033	140	15 55.3
24.0	4 38 36.25	30 43.47	26 12 57.4	1 9 44.7	8.23173	131	15 58.4
24.5	5 9 19.72	31 25.41	27 22 42.1	0 44 14.7	8.23304	122	16 1.3
25.0	5 40 45.13	31 53.18	28 6 56.8	+0 17 7.8	8.23426	111	16 4.0
25.5	6 12 38.31	32 4.27	28 24 4.6	−0 10 52.5	8.23537	99	16 6.5
26.0	6 44 42.58	31 57.85	28 13 12.1	0 38 57.4	8.23636	86	16 8.7
26.5	7 16 40.43	31 34.95	27 34 14.7	−1 6 17.2	8.23722	+ 70	16 10.6
27.0	7 48 15.38	30 58.26	+26 27 57.5	1 32 6.1	8.23792	51	16 12.2
27.5	8 19 13.64	30 11.55	24 55 51.4	1 55 46.1	8.23843	31	16 13.3
28.0	8 49 25.19	29 18.99	23 0 5.3	2 16 49.6	8.23874	+ 8	16 14.0
28.5	9 18 44.18	28 24.60	20 43 15.7	2 34 57.8	8.23882	− 18	16 14.2
29.0	9 47 8.78	27 31.78	18 8 17.9	2 50 1.2	8.23864	45	16 13.8
29.5	10 14 40.56	26 43.17	15 18 16.7	3 1 57.1	8.23819	74	16 12.8
30.0	10 41 23.73	26 0.70	12 16 19.6	3 10 47.8	8.23745	103	16 11.1
30.5	11 7 24.43	25 25.53	9 5 31.8	3 16 38.3	8.23642	133	16 8.8
31.0	11 32 49.96	24 58.31	5 48 53.5	3 19 36.2	8.23509	162	16 5.9
31.5	11 57 48.27	24 39.28	+ 2 29 17.3	−3 19 49.7	8.23347	−189	16 2.3
April 1.0	12 22 27.55	24 28.33	− 0 50 32.4	3 17 27.7	8.23158	213	15 58.1
1.5	12 46 55.88	24 25.14	4 8 0.1	3 12 39.3	8.22945	234	15 53.4
2.0	13 11 21.02	24 29.12	7 20 39.4	3 5 33.3	8.22711	251	15 48.3
2.5	13 35 50.14	24 39.50	10 26 12.7	2 56 18.8	8.22460	264	15 42.8
3.0	14 0 29.64	24 55.29	13 22 31.5	2 45 4.7	8.22196	272	15 37.1
3.5	14 25 24.93	25 15.31	16 7 36.2	2 31 59.9	8.21924	273	15 31.2
4.0	14 50 40.24	25 38.12	18 39 36.1	2 17 14.2	8.21651	270	15 25.4
4.5	15 16 18.36	26 2.06	20 56 50.3	2 0 57.6	8.21381	262	15 19.7
5.0	15 42 20.42	26 25.35	22 57 47.9	1 43 21.9	8.21119	250	15 14.1
5.5	16 8 45.77		24 41 9.8		8.20869		15 8.9

März 18 11ʰ 2ᵐ.3 Neumond. März 25 15ʰ 55ᵐ.5 Erst. Viert. April 1 10ʰ 58ᵐ.2 Vollmond.

Im Meridian von Berlin.

Datum	und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1ʰ Länge	Dekl.	Bew. in 1ʰ Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	″			
März 17	U	11 31.2	23 11 43	+63.30	116.16	− 8 31.6	+14.7			
	O	23 52.4	23 34 54	+63.18	115.77	− 5 31.6	+15.2			
18	U	12 13.5	23 58 5	−63.26	116.01	− 2 26.5	+15.6			
—		—	—	—	—	—	—			
19	O	0 34.8	0 21 22	−63.51	116.92	+ 0 42.0	+15.8			
	U	12 56.3	0 44 54	−63.99	118.53	+ 3 51.8	+15.8			
20	O	1 18.2	1 8 51	−64.66	120.90	+ 7 1.0	+15.7			
	U	13 40.6	1 33 20	−65.55	124.01	+10 7.3	+15.3			
21	O	2 3.8	1 58 31	−66.62	127.85	+13 8.2	+14.8			
	U	14 27.8	2 24 33	−67.86	132.38	+16 1.3	+14.0			
22	O	2 52.8	2 51 33	−69.26	137.51	+18 43.7	+13.0			
	U	15 18.8	3 19 38	−70.73	143.07	+21 12.2	+11.7			
23	O	3 45.9	3 48 50	−72.22	148.82	+23 23.8	+10.2			
	U	16 14.2	4 19 11	−73.65	154.44	+25 15.3	+ 8.4	h m	° ′	
24	O	4 43.6	4 50 37	−74.92	159.51	+26 43.4	+ 6.3	4 5.5	+26 15	5.5
	U	17 13.9	5 22 57	−75.93	163.60	+27 45.3	+ 4.0	4 31.2	+23 10	6.0
25	O	5 44.9	5 55 59	−76.60	166.33	+28 18.6	+ 1.5	5 15.5	+27 52	6.4
	U	18 16.2	6 29 24	−76.85	167.41	+28 21.9	− 1.0	5 31.7	+26 52	5.7
26	O	6 47.6	7 2 50	−76.68	166.76	+27 54.6	− 3.6	6 15.6	+29 35	6.3
	U	19 18.7	7 35 59	−76.10	164.48	+26 57.1	− 6.0	6 34.0	+28 20	5.8
27	O	7 49.2	8 8 31	−75.20	160.87	+25 30.8	− 8.3	7 30.5	+27 6	4.3
	U	20 18.8	8 40 14	−74.06	156.34	+23 38.0	−10.4	7 48.1	+27 0	4.9
28	O	8 47.5	9 10 59	−72.78	151.32	+21 21.7	−12.3	8 27.8	+24 23	6.4
	U	21 15.2	9 40 43	−71.46	146.24	+18 45.2	−13.8	9 2.4	+23 20	6.3
29	O	9 41.9	10 9 27	−70.20	141.39	+15 51.9	−15.0	9 39.6	+19 16	6.5
	U	22 7.7	10 37 16	−69.04	137.03	+12 45.4	−16.0	10 0.9	+16 11	6.3
30	O	10 32.7	11 4 17	−68.03	133.32	+ 9 29.1	−16.7	10 28.2	+ 9 46	3.8
	U	22 57.0	11 30 38	−67.23	130.34	+ 6 6.3	−17.1	10 44.7	+11 1	5.3
31	O	11 20.8	11 56 27	−66.63	128.14	+ 2 40.2	−17.2	11 16.6	+ 6 31	4.2
	U	23 44.2	12 21 55	−66.24	126.72	− 0 46.2	−17.1	11 46.1	+ 2 16	3.8
April 1	O	12 7.4	12 47 11	+66.06	126.05	− 4 10.0	−16.8	12 14.2	− 0 18	5.9
—		—	—	—	—	—	—	12 37.2	− 0 58	2.9
2	U	0 30.6	13 12 23	+66.09	126.13	− 7 28.7	−16.3	13 4.0	− 8 31	5.6
	O	12 53.8	13 37 40	+66.29	126.86	−10 39.7	−15.5	13 18.0	− 5 44	6.8
3	U	1 17.2	14 3 9	+66.65	128.13	−13 40.8	−14.6	13 59.7	−14 33	6.4
	O	13 41.0	14 28 56	+67.14	129.85	−16 29.8	−13.5	14 14.4	−12 58	4.5
4	U	2 5.2	14 55 6	+67.71	131.90	−19 4.6	−12.3	14 52.3	−21 1	5.7
	O	14 29.7	15 21 41	+68.33	134.11	−21 23.4	−10.9	15 7.2	−19 28	4.7
5	U	2 54.7	15 48 43	+68.94	136.30	−23 24.5	− 9.3	15 35.1	−23 32	5.0
	O	15 20.1	16 16 10	+69.50	138.29	−25 6.6	− 7.7	15 58.6	−24 29	6.4

März 28 10ʰ Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 5.0	15 42 20.42	26 25.35	−22 57 47.9	−1 43 21.9	8.21119	−250	15 14.1
5.5	16 8 45.77	26 46.07	24 41 9.8	1 24 40.2	8.20869	232	15 8.9
6.0	16 35 31.84	27 2.46	26 5 50.0	1 5 7.5	8.20637	209	15 4.0
6.5	17 2 34.30	27 12.94	27 10 57.5	0 45 0.1	8.20428	184	14 59.7
7.0	17 29 47.24	27 16.36	27 55 57.6	0 24 35.7	8.20244	155	14 55.9
7.5	17 57 3.60	27 12.12	28 20 33.3	−0 4 11.9	8.20089	125	14 52.7
8.0	18 24 15.72	27 0.27	28 24 45.2	+0 15 53.9	8.19964	92	14 50.1
8.5	18 51 15.99	26 41.42	28 8 51.3	0 35 26.1	8.19872	57	14 48.3
9.0	19 17 57.41	26 16.81	27 33 25.2	0 54 11.0	8.19815	− 23	14 47.1
9.5	19 44 14.22		26 39 14.2		8.19792		14 46.6
		25 47.95		+1 11 58.3		+ 13	
10.0	20 10 2.17	25 16.55	−25 27 15.9	1 28 40.4	8.19805	48	14 46.9
10.5	20 35 18.72	24 44.35	23 58 35.5	1 44 12.0	8.19853	80	14 47.9
11.0	21 0 3.07	24 13.05	22 14 23.5	1 58 30.3	8.19933	112	14 49.5
11.5	21 24 16.12	23 44.12	20 15 53.2	2 11 33.6	8.20045	143	14 51.8
12.0	21 48 0.24	23 18.77	18 4 19.6	2 23 20.8	8.20188	169	14 54.8
12.5	22 11 19.01	22 58.09	15 40 58.8	2 33 50.7	8.20357	193	14 58.2
13.0	22 34 17.10	22 42.94	13 7 8.1	2 43 1.7	8.20550	213	15 2.2
13.5	22 57 0.04	22 34.00	10 24 6.4	2 50 50.7	8.20763	229	15 6.7
14.0	23 19 34.04	22 31.84	7 33 15.7	2 57 13.4	8.20992	241	15 11.5
14.5	23 42 5.88		4 36 2.3		8.21233		15 16.5
		22 36.97		+3 2 3.6		+249	
15.0	0 4 42.85	22 49.74	− 1 33 58.7	3 5 13.4	8.21482	251	15 21.7
15.5	0 27 32.59	23 10.46	+ 1 31 14.7	3 6 32.8	8.21733	249	15 27.1
16.0	0 50 43.05	23 39.33	4 37 47.5	3 5 50.1	8.21982	243	15 32.5
16.5	1 14 22.38	24 16.36	7 43 37.6	3 2 52.9	8.22225	233	15 37.7
17.0	1 38 38.74	25 1.26	10 46 30.5	2 57 26.9	8.22458	218	15 42.7
17.5	2 3 40.00	25 53.38	13 43 57.4	2 49 18.5	8.22676	201	15 47.5
18.0	2 29 33.38	26 51.51	16 33 15.9	2 38 15.4	8.22877	182	15 51.9
18.5	2 56 24.89	27 53.79	19 11 31.3	2 24 7.9	8.23059	160	15 55.9
19.0	3 24 18.68	28 57.42	21 35 39.2	2 6 52.0	8.23219	137	15 59.4
19.5	3 53 16.10		23 42 31.2		8.23356		16 2.5
		29 58.84		+1 46 31.1		+114	
20.0	4 23 14.94	30 53.82	+25 29 2.3	1 23 19.4	8.23470	91	16 5.0
20.5	4 54 8.76	31 37.93	26 52 21.7	0 57 42.6	8.23561	68	16 7.0
21.0	5 25 46.69	32 7.15	27 50 4.3	0 30 18.7	8.23629	47	16 8.5
21.5	5 57 53.84	32 18.62	28 20 23.0	+0 1 55.6	8.23676	27	16 9.6
22.0	6 30 12.46	32 11.37	28 22 18.6	−0 26 33.5	8.23703	+ 8	16 10.2
22.5	7 2 23.83	31 46.44	27 55 45.1	0 54 15.5	8.23711	− 10	16 10.4
23.0	7 34 10.27	31 6.65	27 1 29.6	1 20 22.9	8.23701	25	16 10.2
23.5	8 5 16.92	30 16.11	25 41 6.7	1 44 18.2	8.23676	41	16 9.6
24.0	8 35 33.03	29 19.30	23 56 48.5	2 5 36.2	8.23635	55	16 8.7
24.5	9 4 52.33		21 51 12.3		8.23580		16 7.4

April 9 4h 17.4m Letzt. Viert. April 17 0h 33.8m Neumond. April 23 21h 40.8m Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
April 5	U	2 54.7	15 48 43	+68.94	136.30	−23 24.5	− 9.3	15 35.1	−23 32	5.0
	O	15 20.1	16 16 10	+69.50	138.29	−25 6.6	− 7.7	15 58.6	−24 29	6.4
6	U	3 45.9	16 43 59	+69.95	139.91	−26 28.4	− 5.9	16 38.8	−27 17	6.4
	O	16 12.0	17 12 5	+70.26	140.97	−27 29.0	− 4.1	16 54.6	−24 58	6.3
7	U	4 38.2	17 40 19	+70.40	141.36	−28 7.9	− 2.3	17 37.8	−27 51	6.3
	O	17 4.4	18 8 34	+70.34	141.01	−28 24.7	− 0.5	17 51.2	−28 3	5.7
8	U	5 30.4	18 36 41	+70.09	139.94	−28 19.8	+ 1.3	18 23.5	−26 38	6.5
	O	17 56.2	19 4 31	+69.64	138.18	−27 53.7	+ 3.1	18 47.0	−29 29	6.3
9	U	6 21.6	19 31 56	+69.04	135.87	−27 7.0	+ 4.7	19 24.4	−27 10	5.7
	O	18 46.5	19 58 52	+68.32	133.17	−26 0.7	+ 6.3	19 51.6	−27 24	4.6
10	U	7 10.8	20 25 13	+67.53	130.25	−24 36.1	+ 7.8	20 27.6	−25 15	6.2
	O	19 34.5	20 51 0	+66.72	127.28	−22 54.5	+ 9.2	20 35.0	−24 6	6.3
11	U	7 57.7	21 16 11	+65.92	124.43	−20 57.3	+10.4	21 10.6	−21 1	5.3
	O	20 20.3	21 40 49	+65.17	121.83	−18 45.8	+11.5	21 29.9	−20 39	5.7
12	U	8 42.4	22 4 57	+64.51	119.60	−16 21.4	+12.5	21 57.6	−17 23	6.5
	O	21 4.1	22 28 42	+63.98	117.83	−13 45.6	+13.4	22 14.3	−13 45	6.1
13	U	9 25.5	22 52 9	+63.60	116.61	−10 59.8	+14.2			
	O	21 46.8	23 15 24	+63.40	115.99	− 8 5.4	+14.8			
14	U	10 7.9	23 38 35	+63.37	116.02	− 5 4.0	+15.4			
	O	22 29.2	0 1 51	+63.54	116.76	− 1 57.2	+15.8			
15	U	10 50.6	0 25 20	+63.92	118.22	+ 1 13.3	+16.0			
	O	23 12.4	0 49 10	+64.52	120.44	+ 4 25.5	+16.0			
16	U	11 34.7	1 13 32	+65.33	123.45	+ 7 37.1	+15.9			
	O	23 57.7	1 38 34	+66.35	127.10	+10 45.9	+15.5			
17	U	12 21.6	2 4 26	−67.56	131.51	+13 49.1	+14.9			
—		—	—	—	—	—	—			
18	O	0 46.4	2 31 15	−68.92	136.65	+16 43.8	+14.1			
	U	13 12.2	2 59 10	−70.40	142.31	+19 26.7	+13.0			
19	O	1 39.2	3 28 14	−71.94	148.24	+21 54.3	+11.6			
	U	14 7.5	3 58 30	−73.44	154.15	+24 3.0	+ 9.8			
20	O	2 36.8	4 29 54	−74.80	159.58	+25 49.3	+ 7.8			
	U	15 7.2	5 2 18	−75.93	164.09	+27 9.9	+ 5.6			
21	O	3 38.3	5 35 29	−76.71	167.23	+28 2.2	+ 3.1			
	U	16 9.8	6 9 6	−77.08	168.66	+28 24.3	+ 0.5			
22	O	4 41.5	6 42 49	−76.99	168.23	+28 15.3	− 2.1	6 0.8	+29 31	6.3
	U	17 12.9	7 16 16	−76.48	166.03	+27 35.5	− 4.6	6 15.6	+29 35	6.3
23	O	5 43.7	7 49 7	−75.59	162.32	+26 26.3	− 7.0	7 10.5	+28 3	5.9
	U	18 13.6	8 21 6	−74.42	157.56	+24 49.8	− 9.1	7 24.3	+28 6	5.0
24	O	6 42.5	8 52 4	−73.09	152.19	+22 49.0	−11.0	8 15.3	+24 18	5.9
	U	19 10.3	9 21 56	−71.69	146.68	+20 27.1	−12.6	8 27.8	+24 23	6.4

April 9 14h Apogäum. April 22 11h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
April 24.0	8 35 33.03		+23 56 48.5		8.23635		16 8.7
		29 19.30		−2 5 36.2		−55	
24.5	9 4 52.33		21 51 12.3		8.23580		16 7.4
		28 20.48		2 24 2.5		68	
25.0	9 33 12.81		19 27 9.8		8.23512		16 5.9
		27 23.39		2 39 31.8		81	
25.5	10 0 36.20		16 47 38.0		8.23431		16 4.1
		26 30.79		2 52 5.6		95	
26.0	10 27 6.99		13 55 32.4		8.23336		16 2.0
		25 44.66		3 1 49.1		108	
26.5	10 52 51.65		10 53 43.3		8.23228		15 59.6
		25 6.24		3 8 50.0		121	
27.0	11 17 57.89		7 44 53.3		8.23107		15 57.0
		24 36.24		3 13 15.9		135	
27.5	11 42 34.13		4 31 37.4		8.22972		15 54.0
		24 14.89		3 15 14.0		148	
28.0	12 6 49.02		+ 1 16 23.4		8.22824		15 50.7
		24 2.15		3 14 50.8		162	
28.5	12 30 51.17		− 1 58 27.4		8.22662		15 47.2
		23 57.74		−3 12 11.6		−175	
29.0	12 54 48.91		− 5 10 39.0		8.22487		15 43.4
		24 1.13		3 7 21.0		186	
29.5	13 18 50.04		8 18 0.0		8.22301		15 39.4
		24 11.69		3 0 23.1		197	
30.0	13 43 1.73		11 18 23.1		8.22104		15 35.1
		24 28.52		2 51 21.4		206	
30.5	14 7 30.25		14 9 44.5		8.21898		15 30.7
		24 50.53		2 40 20.4		213	
Mai 1.0	14 32 20.78		16 50 4.9		8.21685		15 26.1
		25 16.31		2 27 25.1		216	
1.5	14 57 37.09		19 17 30.0		8.21469		15 21.5
		25 44.28		2 12 42.3		217	
2.0	15 23 21.37		21 30 12.3		8.21252		15 16.9
		26 12.56		1 56 20.5		215	
2.5	15 49 33.93		23 26 32.8		8.21037		15 12.4
		26 39.06		1 38 31.7		209	
3.0	16 16 12.99		25 5 4.5		8.20828		15 8.0
		27 1.70		1 19 30.2		199	
3.5	16 43 14.69		26 24 34.7		8.20629		15 3.9
		27 18.49		−0 59 33.5		−186	
4.0	17 10 33.18		−27 24 8.2		8.20443		15 0.0
		27 27.83		0 39 1.6		169	
4.5	17 38 1.01		28 3 9.8		8.20274		14 56.5
		27 28.68		−0 18 15.8		149	
5.0	18 5 29.69		28 21 25.6		8.20125		14 53.4
		27 20.61		+0 2 22.7		127	
5.5	18 32 50.30		28 19 2.9		8.19998		14 50.8
		27 4.11		0 22 33.3		100	
6.0	18 59 54.41		27 56 29.6		8.19898		14 48.8
		26 40.24		0 41 58.6		71	
6.5	19 26 34.65		27 14 31.0		8.19827		14 47.3
		26 10.55		1 0 25.0		40	
7.0	19 52 45.20		26 14 6.0		8.19787		14 46.5
		25 36.99		1 17 42.3		− 8	
7.5	20 18 22.19		24 56 23.7		8.19779		14 46.4
		25 1.59		1 33 44.8		+ 26	
8.0	20 43 23.78		23 22 38.9		8.19805		14 46.9
		24 26.29		1 48 29.6		60	
8.5	21 7 50.07		21 34 9.3		8.19865		14 48.1
		23 52.83		+2 1 56.3		+ 94	
9.0	21 31 42.90		−19 32 13.0		8.19959		14 50.0
		23 22.71		2 14 6.2		128	
9.5	21 55 5.61		17 18 6.8		8.20087		14 52.7
		22 57.17		2 25 1.5		161	
10.0	22 18 2.78		14 53 5.3		8.20248		14 56.0
		22 37.18		2 34 43.6		191	
10.5	22 40 39.96		12 18 21.7		8.20439		14 59.9
		22 23.58		2 43 12.8		220	
11.0	23 3 3.54		9 35 8.9		8.20659		15 4.5
		22 17.01		2 50 27.6		246	
11.5	23 25 20.55		6 44 41.3		8.20905		15 9.6
		22 18.03		2 56 25.2		267	
12.0	23 47 38.58		3 48 16.1		8.21172		15 15.3
		22 27.09		3 0 59.8		284	
12.5	0 10 5.67		− 0 47 16.3		8.21456		15 21.3
		22 44.63		3 4 2.6		296	
13.0	0 32 50.30		+ 2 16 46.3		8.21752		15 27.6
		23 10.94		3 5 22.1		303	
13.5	0 56 1.24		5 22 8.4		8.22055		15 34.1

April 30 23h 13m.0 Vollmond. Mai 8 22h 49m.7 Letztes Viertel.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
April 24	O	6 42.5	8 52 4	−73.09	152.19	+22 49.0	−11.0	8 15.3	+24 18	5.9
	U	19 10.3	9 21 56	−71.69	146.68	+20 27.1	−12.6	8 27.8	+24 23	6.4
25	O	7 37.1	9 50 42	−70.31	141.37	+17 47.5	−14.0	9 8.6	+21 39	6.1
	U	20 2.8	10 18 28	−69.04	136.55	+14 53.4	−15.0	9 39.6	+19 16	6.5
26	O	8 27.6	10 45 20	−67.92	132.40	+11 48.2	−15.8	10 12.0	+14 10	5.5
	U	20 51.7	11 11 27	−66.99	129.01	+ 8 34.8	−16.4	10 27.5	+14 35	5.8
27	O	9 15.2	11 36 58	−66.26	126.43	+ 5 16.1	−16.7	11 9.5	+ 8 33	5.8
	U	21 38.3	12 2 4	−65.77	124.68	+ 1 54.9	−16.8	11 16.6	+ 6 31	4.2
28	O	10 1.1	12 26 54	−65.48	123.75	− 1 26.4	−16.7	11 54.6	+ 1 1	6.5
	U	22 23.7	12 51 37	−65.42	123.59	− 4 45.2	−16.4	12 5.2	+ 2 24	6.2
29	O	10 46.4	13 16 22	−65.55	124.14	− 7 59.2	−15.9	12 43.0	− 5 49	6.3
	U	23 9.4	13 41 19	−65.87	125.36	−11 6.0	−15.2	13 5.4	− 5 4	4.4
30	O	11 32.6	14 6 34	−66.34	127.12	−14 3.4	−14.3	13 28.4	− 9 43	5.4
	U	23 56.2	14 32 13	+66.93	129.44	−16 49.3	−13.3	13 42.6	− 9 16	6.2
Mai 1	O	12 20.3	14 58 20	+67.61	131.94	−19 21.5	−12.0	14 29.9	−20 3	6.5
—		—	—	—	—	—	—	14 46.0	−15 41	2.9
2	U	0 44.9	15 24 59	+68.31	134.58	−21 37.9	−10.7	15 11.3	−22 4	5.8
	O	13 10.0	15 52 8	+69.00	137.14	−23 36.9	− 9.1	15 34.2	−22 52	6.2
3	U	1 35.6	16 19 47	+69.61	139.40	−25 16.8	− 7.5	16 15.9	−25 23	3.1
	O	14 1.6	16 47 50	+70.10	141.15	−26 36.1	− 5.7	16 36.3	−24 18	6.1
4	U	2 27.9	17 16 11	+70.42	142.24	−27 33.8	− 3.9	17 10.0	−26 28	5.4
	O	14 54.4	17 44 41	+70.53	142.52	−28 9.5	− 2.0	17 26.3	−26 12	6.0
5	U	3 20.8	18 13 8	+70.43	141.95	−28 22.8	− 0.2	18 6.4	−28 55	6.4
	O	15 47.0	18 41 25	+70.10	140.54	−28 14.1	+ 1.6	18 23.5	−26 38	6.5
6	U	4 12.9	19 9 20	+69.58	138.41	−27 43.9	+ 3.4	19 1.5	−27 48	3.5
	O	16 38.3	19 36 45	+68.91	135.70	−26 53.3	+ 5.0	19 19.0	−28 2	5.9
7	U	5 3.1	20 3 36	+68.12	132.61	−25 43.4	+ 6.6	19 53.6	−26 26	4.9
	O	17 27.3	20 29 49	+67.26	129.34	−24 15.7	+ 8.0	20 27.7	−25 15	6.2
8	U	5 50.8	20 55 22	+66.40	126.08	−22 31.6	+ 9.3	20 47.9	−24 7	6.2
	O	18 13.7	21 20 18	+65.56	123.01	−20 32.5	+10.5	21 10.6	−21 1	5.3
9	U	6 36.0	21 44 38	+64.80	120.27	−18 19.9	+11.6	21 37.8	−19 16	4.8
	O	18 57.8	22 8 27	+64.15	117.97	−15 55.2	+12.5	21 57.4	−18 20	6.4
10	U	7 19.1	22 31 52	+63.64	116.21	−13 19.8	+13.4	22 25.3	−13 22	6.2
	O	19 40.2	22 55 0	+63.29	115.06	−10 34.9	+14.1	22 43.9	−11 1	6.1
11	U	8 1.2	23 17 57	+63.12	114.58	− 7 42.0	+14.7	23 12.3	− 8 12	5.3
	O	20 22.1	23 40 53	+63.16	114.82	− 4 42.2	+15.2	23 31.0	− 7 57	6.5
12	U	8 43.1	0 3 56	+63.40	115.82	− 1 37.1	+15.6	0 0.6	− 0 59	6.3
	O	21 4.4	0 27 15	+63.88	117.64	+ 1 31.7	+15.8	0 13.3	+ 1 12	6.3
13	U	9 26.1	0 51 1	+64.58	120.28	+ 4 42.5	+15.9			
	O	21 48.5	1 15 24	+65.50	123.79	+ 7 53.3	+15.8			

Mai 7 9h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum		Wahre AR. h m s	Diff. m s	Wahre Dekl. ° ′ ″	Diff. ° ′ ″	Log. sin. A. H. Par.	Diff.	Halbm. ′ ″
Mai	13.0	0 32 50.30	23 10.94	+ 2 16 46.3	+3 5 22.1	8.21752	+303	15 27.6
	13.5	0 56 1.24	23 46.26	5 22 8.4	3 4 44.1	8.22055	304	15 34.1
	14.0	1 19 47.50	24 30.58	8 26 52.5	3 1 51.3	8.22359	298	15 40.6
	14.5	1 44 18.08	25 23.61	11 28 43.8	2 56 25.2	8.22657	288	15 47.1
	15.0	2 9 41.69	26 24.50	14 25 9.0	2 48 6.7	8.22945	270	15 53.4
	15.5	2 36 6.19	27 31.78	17 13 15.7	2 36 37.0	8.23215	247	15 59.3
	16.0	3 3 37.97	28 43.00	19 49 52.7	2 21 41.8	8.23462	218	16 4.8
	16.5	3 32 20.97	29 54.65	22 11 34.5	2 3 14.0	8.23680	187	16 9.7
	17.0	4 2 15.62	31 2.19	24 14 48.5	1 41 17.3	8.23867	151	16 13.8
	17.5	4 33 17.81	32 0.35	25 56 5.8	+1 16 10.7	8.24018	+113	16 17.2
	18.0	5 5 18.16	32 43.77	+27 12 16.5	0 48 29.4	8.24131	75	16 19.8
	18.5	5 38 1.93	33 8.07	28 0 45.9	+0 19 3.9	8.24206	+ 36	16 21.5
	19.0	6 11 10.00	33 10.60	28 19 49.8	−0 11 2.3	8.24242	− 1	16 22.3
	19.5	6 44 20.60	32 51.35	28 8 47.5	0 40 42.9	8.24241	35	16 22.3
	20.0	7 17 11.95	32 12.75	27 28 4.6	1 8 55.8	8.24206	68	16 21.5
	20.5	7 49 24.70	31 19.20	26 19 8.8	1 34 49.8	8.24138	96	16 20.0
	21.0	8 20 43.90	30 16.07	24 44 19.0	1 57 49.6	8.24042	121	16 17.8
	21.5	8 50 59.97	29 8.74	22 46 29.4	2 17 36.2	8.23921	142	16 15.1
	22.0	9 20 8.71	28 1.85	20 28 53.2	2 34 4.0	8.23779	158	16 11.9
	22.5	9 48 10.56	26 59.05	17 54 49.2	−2 47 17.9	8.23621	−172	16 8.4
	23.0	10 15 9.61	26 2.92	+15 7 31.3	2 57 28.5	8.23449	182	16 4.5
	23.5	10 41 12.53	25 15.07	12 10 2.8	3 4 49.1	8.23267	189	16 0.5
	24.0	11 6 27.60	24 36.34	9 5 13.7	3 9 33.9	8.23078	194	15 56.3
	24.5	11 31 3.94	24 7.10	5 55 39.8	3 11 55.8	8.22884	197	15 52.1
	25.0	11 55 11.04	23 47.34	+ 2 43 44.0	3 12 5.0	8.22687	198	15 47.7
	25.5	12 18 58.38	23 36.78	− 0 28 21.0	3 10 10.1	8.22489	198	15 43.4
	26.0	12 42 35.16	23 34.95	3 38 31.1	3 6 16.8	8.22291	198	15 39.1
	26.5	13 6 10.11	23 41.23	6 44 47.9	3 0 29.7	8.22093	198	15 34.9
	27.0	13 29 51.34	23 54.85	9 45 17.6	2 52 50.8	8.21895	196	15 30.6
	27.5	13 53 46.19	24 14.87	12 38 8.4	−2 43 21.8	8.21699	−193	15 26.4
	28.0	14 18 1.06	24 40.05	−15 21 30.2	2 32 3.9	8.21506	191	15 22.3
	28.5	14 42 41.11	25 8.88	17 53 34.1	2 18 59.7	8.21315	188	15 18.3
	29.0	15 7 49.99	25 39.63	20 12 33.8	2 4 13.1	8.21127	183	15 14.3
	29.5	15 33 29.62	26 10.28	22 16 46.9	1 47 50.4	8.20944	177	15 10.5
	30.0	15 59 39.90	26 38.57	24 4 37.3	1 30 1.3	8.20767	171	15 6.7
	30.5	16 26 18.47	27 2.28	25 34 38.6	1 10 59.7	8.20596	162	15 3.2
	31.0	16 53 20.75	27 19.31	26 45 38.3	0 51 3.2	8.20434	152	14 59.8
	31.5	17 20 40.06	27 28.01	27 36 41.5	0 30 32.3	8.20282	139	14 56.7
Juni	1.0	17 48 8.07	27 27.37	28 7 13.8	0 9 49.9	8.20143	125	14 53.8
	1.5	18 15 35.44		28 17 3.7		8.20018		14 51.2

Mai 16 $11^h\ 7^m.2$ Neumond. Mai 23 $3^h\ 4^m.9$ Erst. Viert. Mai 30 $12^h\ 23^m.2$ Vollmond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Mai 13	U	9 26.1	0 51 1	+64.58	120.28	+ 4 42.5	+15.9			
	O	21 48.5	1 15 24	+65.50	123.79	+ 7 53.3	+15.8			
14	U	10 11.6	1 40 33	+66.66	128.16	+11 1.6	+15.5			
	O	22 35.7	2 6 40	+68.02	133.36	+14 4.9	+15.0			
15	U	11 0.8	2 33 53	+69.55	139.27	+16 59.8	+14.1			
	O	23 27.3	3 2 21	+71.20	145.76	+19 43.0	+13.0			
16	U	11 55.0	3 32 9	−72.89	152.23	+22 10.7	+11.5			
—		—	—	—	—	—	—			
17	O	0 24.1	4 3 17	−74.53	158.85	+24 18.6	+ 9.7			
	U	12 54.4	4 35 41	−75.99	164.85	+26 2.8	+ 7.6			
18	O	1 25.9	5 9 10	−77.14	169.64	+27 19.6	+ 5.2			
	U	13 58.1	5 43 27	−77.88	172.68	+28 5.9	+ 2.5			
19	O	2 30.7	6 18 7	−78.12	173.62	+28 20.0	− 0.2			
	U	15 3.3	6 52 45	−77.85	172.35	+28 1.2	− 2.9			
20	O	3 35.4	7 26 55	−77.09	169.09	+27 10.3	− 5.5			
	U	16 6.7	8 0 15	−75.95	164.22	+25 49.4	− 7.9			
21	O	4 36.9	8 32 30	−74.55	158.34	+24 1.6	−10.0	7 55.6	+25 38	6.1
	U	17 5.8	9 3 31	−73.00	152.01	+21 50.3	−11.8	8 15.3	+24 18	5.9
22	O	5 33.5	9 33 16	−71.43	145.74	+19 19.4	−13.3	9 2.4	+23 20	6.3
	U	18 0.0	10 1 47	−69.93	139.86	+16 32.6	−14.5	9 8.6	+21 39	6.1
23	O	6 25.4	10 29 13	−68.57	134.65	+13 33.6	−15.4	10 0.9	+16 11	6.3
	U	18 49.8	10 55 40	−67.40	130.25	+10 25.6	−16.0	10 12.0	+14 10	5.5
24	O	7 13.4	11 21 20	−66.45	126.75	+ 7 11.5	−16.4	10 44.7	+11 1	5.3
	U	19 36.5	11 46 24	−65.73	124.14	+ 3 54.1	−16.5	11 9.5	+ 8 33	5.8
25	O	7 59.1	12 11 2	−65.25	122.45	+ 0 35.8	−16.5	11 29.9	+ 3 33	5.7
	U	20 21.4	12 35 26	−64.99	121.61	− 2 41.1	−16.3	11 55.5	+ 4 9	5.2
26	O	8 43.7	12 59 44	−64.96	121.59	− 5 54.5	−15.9	12 27.1	− 4 34	6.3
	U	21 6.0	13 24 7	−65.14	122.33	− 9 2.3	−15.4	12 48.7	− 3 5	6.1
27	O	9 28.6	13 48 43	−65.50	123.73	−12 2.5	−14.7	13 20.6	−10 42	1.2
	U	21 51.5	14 13 40	−66.01	125.73	−14 53.1	−13.8	13 28.4	− 9 43	5.4
28	O	10 14.9	14 39 3	−66.64	128.17	−17 32.2	−12.7	14 6.1	−15 53	5.1
	U	22 38.8	15 4 58	−67.36	130.92	−19 57.6	−11.5	14 14.4	−12 58	4.5
29	O	11 3.2	15 31 27	−68.10	133.79	−22 7.6	−10.1	15 1.4	−21 41	6.1
	U	23 28.2	15 58 30	−68.81	136.56	−24 0.2	− 8.6	15 11.3	−22 4	5.8
30	O	11 53.7	16 26 4	−69.45	139.03	−25 33.9	− 7.0	15 49.4	−24 59	5.9
—		—	—	—	—	—	—	16 8.5	−24 12	6.3
31	U	0 19.7	16 54 6	+69.94	141.02	−26 47.3	− 5.2	16 54.6	−24 58	6.3
	O	12 46.0	17 22 25	+70.26	142.19	−27 39.3	− 3.4	17 10.0	−26 28	5.4
Juni 1	U	1 12.4	17 50 54	+70.35	142.48	−28 9.2	− 1.6	17 42.1	−27 48	var.
	O	13 38.8	18 19 21	+70.22	141.84	−28 16.8	+ 0.3	18 2.6	−28 28	4.7

Mai 19 5^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Juni 1.0	17ʰ 48ᵐ 8ˢ.07	27ᵐ 27ˢ.37	−28° 7′ 13″.8	−0° 9′ 49″.9	8.20143	−125	14′ 53″.8
1.5	18 15 35.44	27 17.17	28 17 3.7	+0 10 40.8	8.20018	109	14 51.2
2.0	18 42 52.61	26 57.97	28 6 22.9	0 30 38.0	8.19909	89	14 49.0
2.5	19 9 50.58	26 31.12	27 35 44.9	0 49 42.9	8.19820	67	14 47.2
3.0	19 36 21.70	25 58.42	26 46 2.0	1 7 40.7	8.19753	43	14 45.8
3.5	20 2 20.12	25 22.00	25 38 21.3	1 24 21.1	8.19710	− 17	14 45.0
4.0	20 27 42.12	24 44.07	24 14 0.2	1 39 39.0	8.19693	+ 10	14 44.6
4.5	20 52 26.19	24 6.62	22 34 21.2	1 53 32.0	8.19703	40	14 44.8
5.0	21 16 32.81	23 31.45	20 40 49.2	2 6 1.2	8.19743	71	14 45.6
5.5	21 40 4.26	23 0.07	18 34 48.0	+2 17 9.4	8.19814	+102	14 47.1
6.0	22 3 4.33	22 33.73	−16 17 38.6	2 27 0.2	8.19916	136	14 49.2
6.5	22 25 38.06	22 13.40	13 50 38.4	2 35 37.4	8.20052	167	14 52.0
7.0	22 47 51.46	21 59.81	11 15 1.0	2 43 2.9	8.20219	199	14 55.4
7.5	23 9 51.27	21 53.65	8 31 58.1	2 49 17.6	8.20418	230	14 59.5
8.0	23 31 44.92	21 55.48	5 42 40.5	2 54 20.8	8.20648	257	15 4.3
8.5	23 53 40.40	22 5.80	− 2 48 19.7	2 58 7.9	8.20905	283	15 9.6
9.0	0 15 46.20	22 25.03	+ 0 9 48.2	3 0 32.5	8.21188	306	15 15.6
9.5	0 38 11.23	22 53.60	3 10 20.7	3 1 24.1	8.21494	323	15 22.1
10.0	1 1 4.83	23 31.81	6 11 44.8	3 0 28.4	8.21817	336	15 29.0
10.5	1 24 36.64	24 19.80	9 12 13.2	+2 57 28.4	8.22153	+343	15 36.2
11.0	1 48 56.44	25 17.34	+12 9 41.6	2 52 3.6	8.22496	343	15 43.6
11.5	2 14 13.78	26 23.75	15 1 45.2	2 43 51.7	8.22839	337	15 51.1
12.0	2 40 37.53	27 37.54	17 45 36.9	2 32 29.3	8.23176	322	15 58.5
12.5	3 8 15.07	28 56.21	20 18 6.2	2 17 36.3	8.23498	301	16 5.6
13.0	3 37 11.28	30 15.93	22 35 42.5	1 58 59.6	8.23799	272	16 12.3
13.5	4 7 27.21	31 31.72	24 34 42.1	1 36 37.6	8.24071	236	16 18.4
14.0	4 38 58.93	32 37.51	26 11 19.7	1 10 45.5	8.24307	195	16 23.8
14.5	5 11 36.44	33 27.05	27 22 5.2	0 41 58.7	8.24502	149	16 28.2
15.0	5 45 3.49	33 55.13	28 4 3.9	+0 11 13.2	8.24651	100	16 31.6
15.5	6 18 58.62	33 58.67	28 15 17.1	−0 20 19.5	8.24751	+ 48	16 33.9
16.0	6 52 57.29	33 37.54	+27 54 57.6	0 51 21.2	8.24799	− 2	16 35.0
16.5	7 26 34.83	32 54.78	27 3 36.4	1 20 38.6	8.24797	52	16 34.9
17.0	7 59 29.61	31 55.53	25 42 57.8	1 47 11.6	8.24745	99	16 33.7
17.5	8 31 25.14	30 46.03	23 55 46.2	2 10 19.4	8.24646	141	16 31.5
18.0	9 2 11.17	29 32.50	21 45 26.8	2 29 41.9	8.24505	178	16 28.3
18.5	9 31 43.67	28 19.99	19 15 44.9	2 45 15.6	8.24327	209	16 24.2
19.0	10 0 3.66	27 12.52	16 30 29.3	2 57 9.2	8.24118	234	16 19.5
19.5	10 27 16.18	26 12.67	13 33 20.1	3 5 39.5	8.23884	254	16 14.2
20.0	10 53 28.85	25 22.01	10 27 40.6	3 11 5.9	8.23630	266	16 8.5
20.5	11 18 50.86		7 16 34.7		8.23364		16 2.6

Juni 7 15ʰ 29ᵐ.2 Letztes Viertel. Juni 14 19ʰ 17ᵐ.2 Neumond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° '	'	h m	° '	
Juni 1	U	1 12.4	17 50 54	+70.35	142.48	−28 9.2	− 1.6	17 42.1	−27 48	var.
	O	13 38.8	18 19 21	+70.22	141.84	−28 16.8	+ 0.3	18 2.6	−28 28	4.7
2	U	2 5.0	18 47 35	+69.85	140.31	−28 2.5	+ 2.1	18 40.2	−27 5	3.3
	O	14 30.8	19 15 26	+69.30	137.99	−27 26.9	+ 3.8	19 1.5	−27 48	3.5
3	U	2 56.1	19 42 46	+68.57	135.08	−26 31.1	+ 5.5	19 24.5	−27 10	5.7
	O	15 20.8	20 9 28	+67.73	131.76	−25 16.4	+ 7.0	19 50.5	−26 32	4.8
4	U	3 44.8	20 35 30	+66.84	128.26	−23 44.5	+ 8.4	20 27.7	−25 15	6.2
	O	16 8.1	21 0 49	+65.92	124.79	−21 56.7	+ 9.6	20 47.9	−24 7	6.2
5	U	4 30.7	21 25 27	+65.06	121.53	−19 54.8	+10.7	21 19.2	−21 14	5.3
	O	16 52.7	21 49 28	+64.27	118.62	−17 40.3	+11.7	21 37.8	−19 16	4.8
6	U	5 14.1	22 12 58	+63.61	116.19	−15 14.6	+12.6	22 7.7	−14 38	6.2
	O	17 35.2	22 36 1	+63.09	114.32	−12 39.2	+13.3	22 25.6	−15 2	6.1
7	U	5 55.9	22 58 45	+62.75	113.08	− 9 55.3	+14.0	23 0.6	− 8 10	5.4
	O	18 16.4	23 21 18	+62.58	112.55	− 7 4.2	+14.5	23 11.3	− 9 34	4.5
8	U	6 36.9	23 43 49	+62.64	112.76	− 4 7.1	+15.0	23 43.4	− 3 15	5.6
	O	18 57.5	0 6 27	+62.91	113.76	− 1 5.4	+15.3	23 54.2	− 4 3	5.0
9	U	7 18.4	0 29 22	+63.41	115.62	+ 1 59.5	+15.5	0 20.9	+ 1 27	6.0
	O	19 39.7	0 52 44	+64.16	118.36	+ 5 6.2	+15.6	0 43.8	+ 4 50	5.9
10	U	8 1.7	1 16 45	+65.14	122.01	+ 8 12.7	+15.5	1 9.1	+ 7 7	5.4
	O	20 24.5	1 41 34	+66.35	126.60	+11 17.0	+15.2	1 23.8	+ 7 30	6.4
11	U	8 48.3	2 7 24	+67.80	132.11	+14 16.6	+14.7	1 57.8	+13 3	6.3
	O	21 13.3	2 34 24	+69.44	138.46	+17 8.6	+13.9	2 8.3	+14 52	5.8
12	U	9 39.6	3 2 46	+71.21	145.52	+19 49.4	+12.8			
	O	22 7.3	3 32 35	+73.06	152.98	+22 15.3	+11.4			
13	U	10 36.6	4 3 53	+74.88	160.43	+24 22.0	+ 9.6			
	O	23 7.3	4 36 38	+76.51	167.29	+26 5.1	+ 7.5			
14	U	11 39.2	5 10 39	+77.85	172.92	+27 20.4	+ 5.0			
—		—	—	—	—	—	—			
15	O	0 12.2	5 45 38	−78.74	176.55	+28 4.5	+ 2.3			
	U	12 45.6	6 21 9	−79.08	178.02	+28 14.9	− 0.6			
16	O	1 19.1	6 56 40	−78.84	176.99	+27 50.8	− 3.4			
	U	13 52.1	7 31 46	−78.06	173.63	+26 52.9	− 6.2			
17	O	2 24.2	8 5 59	−76.86	168.43	+25 23.5	− 8.7			
	U	14 55.2	8 39 1	−75.35	162.05	+23 26.0	−10.9			
18	O	3 24.9	9 10 43	−73.68	155.15	+21 4.7	−12.7			
	U	15 53.2	9 41 2	−72.00	148.29	+18 23.8	−14.1			
19	O	4 20.1	10 10 1	−70.40	141.87	+15 27.7	−15.2	9 39.6	+19 16	6.5
	U	16 45.8	10 37 47	−68.96	136.20	+12 20.5	−16.0	10 0.9	+16 11	6.3
20	O	5 10.5	11 4 31	−67.71	131.42	+ 9 5.8	−16.5	10 23.0	+10 13	5.8
	U	17 34.3	11 30 23	−66.70	127.61	+ 5 46.8	−16.7	10 44.6	+11 1	5.3

Juni 4 2^h Apogäum. Juni 16 5^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum		Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Juni	20.0	10 53 28.85		+10 27 40.6		8.23630		16 8.5
			25 22.01		−3 11 5.9		−266	
	20.5	11 18 50.86		7 16 34.7		8.23364		16 2.6
			24 41.31		3 13 48.0		274	
	21.0	11 43 32.17		4 2 46.7		8.23090		15 56.6
			24 10.75		3 14 4.5		277	
	21.5	12 7 42.92		+0 48 42.2		8.22813		15 50.5
			23 50.17		3 12 10.4		275	
	22.0	12 31 33.09		−2 23 28.2		8.22538		15 44.5
			23 39.17		3 8 17.6		269	
	22.5	12 55 12.26		5 31 45.8		8.22269		15 38.7
			23 37.15		3 2 35.0		262	
	23.0	13 18 49.41		8 34 20.8		8.22007		15 33.0
			23 43.43		2 55 9.4		253	
	23.5	13 42 32.84		11 29 30.2		8.21754		15 27.6
			23 57.07		2 46 4.3		241	
	24.0	14 6 29.91		14 15 34.5		8.21513		15 22.5
			24 17.03		2 35 21.9		227	
	24.5	14 30 46.94		16 50 56.4		8.21286		15 17.7
			24 41.99		−2 23 3.6		−215	
	25.0	14 55 28.93		−19 14 0.0		8.21071		15 13.1
			25 10.40		2 9 11.9		201	
	25.5	15 20 39.33		21 23 11.9		8.20870		15 8.9
			25 40.40		1 53 49.5		188	
	26.0	15 46 19.73		23 17 1.4		8.20682		15 5.0
			26 9.94		1 37 2.2		173	
	26.5	16 12 29.67		24 54 3.6		8.20509		15 1.4
			26 36.71		1 18 59.1		159	
	27.0	16 39 6.38		26 13 2.7		8.20350		14 58.1
			26 58.51		0 59 52.0		145	
	27.5	17 6 4.89		27 12 54.7		8.20205		14 55.1
			27 13.37		0 39 57.9		131	
	28.0	17 33 18.26		27 52 52.6		8.20074		14 52.4
			27 19.68		−0 19 37.0		117	
	28.5	18 0 37.94		28 12 29.6		8.19957		14 50.0
			27 16.61		+0 0 49.2		101	
	29.0	18 27 54.55		28 11 40.4		8.19856		14 47.9
			27 4.10		0 20 58.1		85	
	29.5	18 54 58.65		27 50 42.3		8.19771		14 46.2
			26 42.86		+0 40 28.0		−70	
	30.0	19 21 41.51		−27 10 14.3		8.19701		14 44.8
			26 14.29		0 59 0.7		52	
	30.5	19 47 55.80		26 11 13.6		8.19649		14 43.7
			25 40.29		1 16 22.0		33	
Juli	1.0	20 13 36.09		24 54 51.6		8.19616		14 43.0
			25 2.96		1 32 21.5		−13	
	1.5	20 38 39.05		23 22 30.1		8.19603		14 42.8
			24 24.43		1 46 53.6		+8	
	2.0	21 3 3.48		21 35 36.5		8.19611		14 42.9
			23 46.67		1 59 56.3		32	
	2.5	21 26 50.15		19 35 40.2		8.19643		14 43.6
			23 11.41		2 11 30.8		56	
	3.0	21 50 1.56		17 24 9.4		8.19699		14 44.7
			22 40.05		2 21 39.7		81	
	3.5	22 12 41.61		15 2 29.7		8.19780		14 46.4
			22 13.78		2 30 27.0		108	
	4.0	22 34 55.39		12 32 2.7		8.19888		14 48.6
			21 53.52		2 37 56.7		136	
	4.5	22 56 48.91		9 54 6.0		8.20024		14 51.4
			21 40.00		+2 44 11.9		+165	
	5.0	23 18 28.91		−7 9 54.1		8.20189		14 54.8
			21 33.83		2 49 14.6		193	
	5.5	23 40 2.74		4 20 39.5		8.20382		14 58.8
			21 35.55		2 53 5.0		221	
	6.0	0 1 38.29		−1 27 34.5		8.20603		15 3.3
			21 45.69		2 55 40.8		248	
	6.5	0 23 23.98		+1 28 6.3		8.20851		15 8.5
			22 4.65		2 56 57.3		275	
	7.0	0 45 28.63		4 25 3.6		8.21126		15 14.3
			22 32.88		2 56 46.5		300	
	7.5	1 8 1.51		7 21 50.1		8.21426		15 20.6
			23 10.74		2 54 56.6		320	
	8.0	1 31 12.25		10 16 46.7		8.21746		15 27.4
			23 58.43		2 51 12.7		336	
	8.5	1 55 10.68		13 7 59.4		8.22082		15 34.6
			24 55.85		2 45 16.4		349	
	9.0	2 20 6.53		15 53 15.8		8.22431		15 42.2
			26 2.43		2 36 46.6		356	
	9.5	2 46 8.96		18 30 2.4		8.22787		15 49.9

Juni 21 9h 32m.5 Erst. Viert. Juni 29 2h 27m.4 Vollmond. Juli 7 5h 40m.5 Letzt. Viert.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Juni 20	O	5 10.5	11 4 31	−67.71	131.42	+ 9 5.8	−16.5	10 23.0	+10 13	5.8
	U	17 34.3	11 30 23	−66.70	127.61	+ 5 46.8	−16.7	10 44.6	+11 1	5.3
21	O	5 57.5	11 55 36	−65.94	124.76	+ 2 26.3	−16.7	11 16.6	+ 6 31	4.2
	U	18 20.2	12 20 20	−65.43	122.87	− 0 53.1	−16.5	11 41.4	+ 7 1	4.2
22	O	6 42.6	12 44 47	−65.15	121.88	− 4 9.4	−16.1	12 14.2	− 0 18	5.9
	U	19 4.9	13 9 8	−65.10	121.75	− 7 20.3	−15.6	12 37.2	− 0 58	2.9
23	O	7 27.3	13 33 33	−65.26	122.39	−10 24.1	−15.0	13 4.0	− 8 31	5.6
	U	19 49.9	13 58 9	−65.60	123.72	−13 19.0	−14.2	13 28.4	− 9 43	5.4
24	O	8 12.8	14 23 5	−66.10	125.62	−16 3.2	−13.2	13 59.7	−14 33	6.4
	U	20 36.1	14 48 26	−66.71	128.00	−18 34.8	−12.1	14 6.1	−15 53	5.1
25	O	8 59.9	15 14 18	−67.40	130.66	−20 52.3	−10.8	14 41.2	−20 48	6.4
	U	21 24.3	15 40 44	−68.10	133.45	−22 53.8	− 9.4	15 8.3	−19 19	6.0
26	O	9 49.3	16 7 43	−68.78	136.15	−24 37.7	− 7.9	15 32.7	−22 51	6.0
	U	22 14.7	16 35 12	−69.35	138.51	−26 2.7	− 6.2	15 48.7	−23 43	5.3
27	O	10 40.6	17 3 6	−69.81	140.34	−27 7.3	− 4.5	16 26.0	−26 21	6.2
	U	23 6.7	17 31 18	−70.06	141.43	−27 50.6	− 2.7	16 38.9	−27 17	6.4
28	O	11 33.0	17 59 37	−70.10	141.65	−28 12.1	− 0.9	17 26.3	−26 12	6.0
	U	23 59.2	18 27 53	−69.91	140.95	−28 11.7	+ 0.9	17 42.1	−27 48	var.
29	O	12 25.2	18 55 55	+69.50	139.28	−27 49.6	+ 2.7	18 16.5	−28 28	6.1
—		—	—	—	—	—	—	18 40.2	−27 5	3.3
30	U	0 50.8	19 23 34	+68.89	136.90	−27 6.7	+ 4.4	19 19.1	−28 2	5.9
	O	13 15.9	19 50 40	+68.13	133.91	−26 4.0	+ 6.0	19 34.9	−23 38	6.1
Juli 1	U	1 40.3	20 17 8	+67.26	130.54	−24 42.9	+ 7.5	20 12.9	−22 5	6.0
	O	14 4.1	20 42 54	+66.34	126.99	−23 5.1	+ 8.8	20 27.7	−25 15	6.2
2	U	2 27.1	21 7 58	+65.41	123.48	−21 12.1	+10.0	21 3.6	−21 33	5.3
	O	14 49.4	21 32 21	+64.52	120.17	−19 5.7	+11.1	21 19.2	−21 14	5.3
3	U	3 11.2	21 56 6	+63.74	117.21	−16 47.5	+12.0	21 45.4	−17 15	6.5
	O	15 32.3	22 19 17	+63.07	114.73	−14 19.0	+12.8	22 7.7	−14 38	6.2
4	U	3 53.0	22 42 2	+62.55	112.78	−11 41.7	+13.4	22 43.9	−11 1	6.1
	O	16 13.4	23 4 28	+62.20	111.47	− 8 57.0	+14.0	22 48.9	−12 5	5.8
5	U	4 33.6	23 26 41	+62.04	110.83	− 6 6.1	+14.4	23 25.0	− 5 1	6.4
	O	16 53.8	23 48 51	+62.08	110.92	− 3 10.4	+14.8	23 31.0	− 7 57	6.5
6	U	5 14.0	0 11 6	+62.34	111.80	− 0 11.2	+15.0	0 3.7	− 2 56	6.3
	O	17 34.5	0 33 36	+62.83	113.50	+ 2 50.2	+15.2	0 20.9	+ 1 27	6.0
7	U	5 55.4	0 56 32	+63.57	116.08	+ 5 52.4	+15.2	0 55.3	+ 6 1	6.3
	O	18 16.9	1 20 4	+64.54	119.56	+ 8 53.8	+15.0	1 9.2	+ 7 7	5.4
8	U	6 39.2	1 44 23	+65.74	123.99	+11 52.3	+14.7	1 32.4	+11 42	5.6
	O	19 2.4	2 9 41	+67.18	129.36	+14 45.8	+14.2	1 54.7	+11 52	6.0
9	U	7 26.8	2 36 8	+68.82	135.61	+17 31.7	+13.4	2 39.4	+17 24	6.5
	O	19 52.6	3 3 55	+70.62	142.63	+20 6.9	+12.4	2 50.9	+17 59	6.0

Juli 1 13^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juli 9.0	2 20 6.53	26 2.43	+15 53 15.8	+2 36 46.6	8.22431	+356	15 42.2
9.5	2 46 8.96	27 16.91	18 30 2.4	2 25 20.6	8.22787	357	15 49.9
10.0	3 13 25.87	28 37.02	20 55 23.0	2 10 37.1	8.23144	349	15 57.7
10.5	3 42 2.89	29 59.24	23 6 0.1	1 52 19.3	8.23493	335	16 5.5
11.0	4 12 2.13	31 18.67	24 58 19.4	1 30 20.7	8.23828	312	16 13.0
11.5	4 43 20.80	32 29.38	26 28 40.1	1 4 49.9	8.24140	282	16 20.0
12.0	5 15 50.18	33 25.02	27 33 30.0	0 36 15.8	8.24422	243	16 26.4
12.5	5 49 15.20	33 59.90	28 9 45.8	+0 5 28.1	8.24665	198	16 31.9
13.0	6 23 15.10	34 10.37	28 15 13.9	−0 26 24.5	8.24863	146	16 36.4
13.5	6 57 25.47		27 48 49.4		8.25009		16 39.8
		33 55.67		−0 58 2.7		+ 91	
14.0	7 31 21.14	33 18.25	+26 50 46.7	1 28 7.6	8.25100	+ 34	16 41.9
14.5	8 4 39.39	32 23.04	25 22 39.1	1 55 31.8	8.25134	− 25	16 42.7
15.0	8 37 2.43	31 16.27	23 27 7.3	2 19 25.7	8.25109	83	16 42.1
15.5	9 8 18.70	30 4.27	21 7 41.6	2 39 20.6	8.25026	137	16 40.2
16.0	9 38 22.97	28 52.50	18 28 21.0	2 55 7.2	8.24889	185	16 37.1
16.5	10 7 15.47	27 45.13	15 33 13.8	3 6 51.0	8.24704	229	16 32.8
17.0	10 35 0.60	26 45.06	12 26 22.8	3 14 47.1	8.24475	265	16 27.6
17.5	11 1 45.66	25 54.03	9 11 35.7	3 19 16.6	8.24210	293	16 21.6
18.0	11 27 39.69	25 12.86	5 52 19.1	3 20 42.3	8.23917	314	16 15.0
18.5	11 52 52.55		+ 2 31 36.8		8.23603		16 8.0
		24 41.81		−3 19 26.0		−328	
19.0	12 17 34.36	24 20.74	− 0 47 49.2	3 15 47.1	8.23275	334	16 0.7
19.5	12 41 55.10	24 9.17	4 3 36.3	3 10 2.3	8.22941	334	15 53.3
20.0	13 6 4.27	24 6.46	7 13 38.6	3 2 24.5	8.22607	329	15 46.0
20.5	13 30 10.73	24 11.78	10 16 3.1	2 53 3.8	8.22278	318	15 38.9
21.0	13 54 22.51	24 24.16	13 9 6.9	2 42 7.6	8.21960	304	15 32.0
21.5	14 18 46.67	24 42.42	15 51 14.5	2 29 41.0	8.21656	287	15 25.5
22.0	14 43 29.09	25 5.12	18 20 55.5	2 15 48.2	8.21369	267	15 19.4
22.5	15 8 34.21	25 30.64	20 36 43.7	2 0 33.3	8.21102	246	15 13.8
23.0	15 34 4.85	25 57.07	22 37 17.0	1 44 1.3	8.20856	224	15 8.6
23.5	16 0 1.92		24 21 18.3		8.20632		15 3.9
		26 22.32		−1 26 18.8		−202	
24.0	16 26 24.24	26 44.30	−25 47 37.1	1 7 35.5	8.20430	179	14 59.7
24.5	16 53 8.54	27 0.94	26 55 12.6	0 48 4.4	8.20251	157	14 56.0
25.0	17 20 9.48	27 10.49	27 43 17.0	0 28 1.1	8.20094	134	14 52.8
25.5	17 47 19.97	27 11.77	28 11 18.1	−0 7 44.2	8.19960	114	14 50.1
26.0	18 14 31.74	27 4.20	28 19 2.3	+0 12 26.2	8.19846	94	14 47.7
26.5	18 41 35.94	26 48.03	28 6 36.1	0 32 9.8	8.19752	73	14 45.8
27.0	19 8 23.97	26 24.13	27 34 26.3	0 51 7.9	8.19679	54	14 44.3
27.5	19 34 48.10	25 53.98	26 43 18.4	1 9 4.4	8.19625	36	14 43.2
28.0	20 0 42.08	25 19.41	25 34 14.0	1 25 46.2	8.19589	18	14 42.5
28.5	20 26 1.49		24 8 27.8		8.19571		14 42.1

Juli 14 2ʰ 6ᵐ.8 Neumond. Juli 20 18ʰ 12ᵐ.0 Erstes Viertel.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1^h Länge	Dekl.	Bew. in 1^h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
Juli 9	U	7^h 26.8^m	2^h 36^m 8^s	$+68.82^s$	135.61^s	$+17°$ $31.7'$	$+13.4'$	2^h 39.4^m	$+17°$ $24'$	6.5
	O	19 52.6	3 3 55	+70.62	142.63	+20 6.9	+12.4	2 50.9	+17 59	6.0
10	U	8 19.8	3 33 9	+72.50	150.20	+22 27.8	+11.0	3 23.3	+22 30	6.1
	O	20 48.5	4 3 56	+74.39	157.93	+24 30.4	+ 9.3	3 43.1	+23 9	5.5
11	U	9 18.7	4 36 14	+76.16	165.29	+26 10.5	+ 7.3			
	O	21 50.4	5 9 55	+77.64	171.63	+27 23.9	+ 4.9			
12	U	10 23.1	5 44 43	+78.72	176.29	+28 6.6	+ 2.2			
	O	22 56.6	6 20 15	+79.27	178.70	+28 16.0	− 0.7			
13	U	11 30.3	6 56 1	+79.24	178.57	+27 50.5	− 3.6			
—		—	—	—	—	—	—			
14	O	0 3.7	7 31 32	+78.65	176.15	+26 50.4	− 6.4			
	U	12 36.5	8 6 19	−77.58	171.62	+25 17.4	− 9.0			
15	O	1 8.1	8 40 3	−76.17	165.68	+23 14.9	−11.3			
	U	13 38.5	9 12 30	−74.56	158.98	+20 47.0	−13.3			
16	O	2 7.6	9 43 35	−72.90	152.15	+17 58.4	−14.8			
	U	14 35.3	10 13 20	−71.30	145.67	+14 53.8	−15.9			
17	O	3 1.7	10 41 51	−69.84	139.85	+11 37.8	−16.7			
	U	15 27.1	11 9 18	−68.58	134.90	+ 8 14.6	−17.1			
18	O	3 51.6	11 35 50	−67.55	130.90	+ 4 47.8	−17.3			
	U	16 15.4	12 1 41	−66.77	127.87	+ 1 20.6	−17.2			
19	O	4 38.7	12 27 2	−66.24	125.79	− 2 4.2	−16.9	11 54.6	+ 1 1	6.5
	U	17 1.7	12 52 3	−65.94	124.64	− 5 24.1	−16.4	12 14.2	− 0 18	5.9
20	O	5 24.6	13 16 56	−65.88	124.34	− 8 36.9	−15.7	12 43.0	− 5 49	6.3
	U	17 47.5	13 41 50	−66.00	124.78	−11 40.8	−14.9	13 5.4	− 5 4	4.4
21	O	6 10.5	14 6 54	−66.31	125.91	−14 34.0	−13.9	13 28.4	− 9 43	5.4
	U	18 33.8	14 32 15	−66.76	127.60	−17 14.8	−12.8	13 41.3	−11 59	5.6
22	O	6 57.5	14 57 59	−67.32	129.71	−19 41.5	−11.6	14 13.8	−18 19	5.7
	U	19 21.7	15 24 10	−67.94	132.09	−21 52.6	−10.2	14 41.1	−15 5	6.6
23	O	7 46.3	15 50 50	−68.55	134.54	−23 46.6	− 8.7	15 11.3	−22 4	5.8
	U	20 11.4	16 17 59	−69.12	136.85	−25 22.2	− 7.2	15 32.7	−22 51	6.0
24	O	8 36.9	16 45 34	−69.60	138.82	−26 38.1	− 5.5	16 9.6	−25 15	6.0
	U	21 2.8	17 13 29	−69.93	140.24	−27 33.3	− 3.7	16 24.9	−24 55	4.8
25	O	9 28.9	17 41 38	−70.07	140.94	−28 7.1	− 1.9	17 7.0	−27 39	6.1
	U	21 55.1	18 9 50	−70.00	140.83	−28 19.2	− 0.1	17 21.5	−25 52	6.3
26	O	10 21.1	18 37 54	−69.72	139.86	−28 9.5	+ 1.7	18 2.6	−28 28	4.7
	U	22 46.9	19 5 42	−69.22	138.08	−27 38.6	+ 3.5	18 16.5	−28 28	6.1
27	O	11 12.2	19 33 4	−68.56	135.61	−26 47.3	+ 5.1	19 1.5	−27 48	3.5
	U	23 37.0	19 59 53	−67.75	132.62	−25 36.7	+ 6.6	19 19.1	−28 2	5.9
28	O	12 1.1	20 26 4	−66.87	129.30	−24 8.3	+ 8.1	19 53.7	−26 26	4.9
—		—	—	—	—	—	—	20 12.9	−22 5	6.0

Juli 14 13^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Juli 28.0	20 0 42.08	25 19.41	−25 34 14.0	+1 25 46.2	8.19589	− 18	14 42.5
28.5	20 26 1.49	24 42.39	24 8 27.8	1 41 5.0	8.19571	+ 1	14 42.1
29.0	20 50 43.88	24 4.86	22 27 22.8	1 54 55.0	8.19572	19	14 42.1
29.5	21 14 48.74	23 28.57	20 32 27.8	2 7 14.8	8.19591	37	14 42.5
30.0	21 38 17.31	22 55.07	18 25 13.0	2 18 4.5	8.19628	55	14 43.3
30.5	22 1 12.38	22 25.58	16 7 8.5	2 27 25.8	8.19683	74	14 44.4
31.0	22 23 37.96	22 1.15	13 39 42.7	2 35 21.7	8.19757	95	14 45.9
31.5	22 45 39.11	21 42.57	11 4 21.0	2 41 55.5	8.19852	115	14 47.9
Aug. 1.0	23 7 21.68	21 30.49	8 22 25.5	2 47 9.7	8.19967	136	14 50.2
1.5	23 28 52.17	21 25.47	5 35 15.8	+2 51 5.6	8.20103	+158	14 53.0
2.0	23 50 17.64	21 28.00	− 2 44 10.2	2 53 43.9	8.20261	180	14 56.3
2.5	0 11 45.64	21 38.48	+ 0 9 33.7	2 55 2.7	8.20441	203	15 0.0
3.0	0 33 24.12	21 57.35	3 4 36.4	2 54 58.5	8.20644	225	15 4.2
3.5	0 55 21.47	22 24.96	5 59 34.9	2 53 24.7	8.20869	248	15 8.9
4.0	1 17 46.43	23 1.57	8 52 59.6	2 50 12.5	8.21117	268	15 14.1
4.5	1 40 48.00	23 47.32	11 43 12.1	2 45 9.5	8.21385	288	15 19.8
5.0	2 4 35.32	24 42.07	14 28 21.6	2 38 1.1	8.21673	305	15 25.9
5.5	2 29 17.39	25 45.22	17 6 22.7	2 28 30.2	8.21978	319	15 32.4
6.0	2 55 2.61	26 55.52	19 34 52.9	2 16 18.6	8.22297	329	15 39.3
6.5	3 21 58.13	28 10.90	21 51 11.5	+2 1 8.7	8.22626	+334	15 46.4
7.0	3 50 9.03	29 28.19	+23 52 20.2	1 42 47.1	8.22960	334	15 53.7
7.5	4 19 37.22	30 43.05	25 35 7.3	1 21 8.2	8.23294	328	16 1.1
8.0	4 50 20.27	31 50.23	26 56 15.5	0 56 18.6	8.23622	314	16 8.4
8.5	5 22 10.50	32 44.21	27 52 34.1	+0 28 41.6	8.23936	293	16 15.4
9.0	5 54 54.71	33 19.89	28 21 15.7	−0 1 1.0	8.24229	263	16 22.0
9.5	6 28 14.60	33 33.99	28 20 14.7	0 31 52.2	8.24492	227	16 28.0
10.0	7 1 48.59	33 25.47	27 48 22.5	1 2 42.5	8.24719	183	16 33.1
10.5	7 35 14.06	32 56.20	26 45 40.0	1 32 21.2	8.24902	134	16 37.3
11.0	8 8 10.26	32 10.20	25 13 18.8	1 59 42.8	8.25036	79	16 40.4
11.5	8 40 20.46	31 12.80	23 13 36.0	−2 23 55.6	8.25115	+ 22	16 42.2
12.0	9 11 33.26	30 9.69	+20 49 40.4	2 44 25.1	8.25137	− 37	16 42.7
12.5	9 41 42.95	29 5.89	18 5 15.3	3 0 52.6	8.25100	95	16 41.9
13.0	10 10 48.84	28 5.43	15 4 22.7	3 13 14.8	8.25005	151	16 39.7
13.5	10 38 54.27	27 11.20	11 51 7.9	3 21 39.1	8.24854	202	16 36.2
14.0	11 6 5.47	26 25.04	8 29 28.8	3 26 20.0	8.24652	246	16 31.6
14.5	11 32 30.51	25 47.95	5 3 8.8	3 27 36.6	8.24406	285	16 26.0
15.0	11 58 18.46	25 20.24	+ 1 35 32.2	3 25 49.2	8.24121	315	16 19.6
15.5	12 23 38.70	25 1.84	− 1 50 17.0	3 21 18.1	8.23806	337	16 12.5
16.0	12 48 40.54	24 52.33	5 11 35.1	3 14 22.0	8.23469	351	16 5.0
16.5	13 13 32.87		8 25 57.1		8.23118		15 57.2

Juli 28 17h 21.8m Vollmond. Aug. 5 17h 11.2m Letzt. Viert. Aug. 12 8h 51.2m Neumond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Juli 28	O	12 1.1	20 26 4	−66.87	129.30	−24 8.3	+ 8.1	19 53.7	−26 26	4.9
—		—	—	—	—	—	—	20 12.9	−22 5	6.0
29	U	0 24.6	20 51 34	+65.94	125.68	−22 23.7	+ 9.4	20 47.9	−24 7	6.2
	O	12 47.3	21 16 22	+65.01	122.28	−20 24.5	+10.5	21 3.6	−21 33	5.3
30	U	1 9.5	21 40 31	+64.15	119.09	−18 12.4	+11.5	21 37.8	−19 16	4.8
	O	13 31.0	22 4 4	+63.37	116.26	−15 49.0	+12.4	21 57.4	−18 20	6.4
31	U	1 52.0	22 27 5	+62.72	113.86	−13 16.0	+13.1	22 19.8	−13 59	5.9
	O	14 12.5	22 49 40	+62.22	112.00	−10 35.0	+13.7	22 43.9	−11 1	6.1
Aug. 1	U	2 32.8	23 11 56	+61.88	110.73	− 7 47.4	+14.2	23 0.6	− 8 10	5.4
	O	14 52.8	23 34 1	+61.73	110.12	− 4 54.5	+14.6	23 16.2	− 6 23	6.3
2	U	3 12.8	23 56 2	+61.79	110.18	− 1 57.8	+14.8	23 48.4	− 3 39	6.1
	O	15 32.9	0 18 8	+62.04	111.00	+ 1 1.3	+15.0	0 3.7	− 2 56	6.3
3	U	3 53.2	0 40 28	+62.55	112.58	+ 4 1.4	+15.0	0 43.8	+ 4 50	5.9
	O	16 13.9	1 3 12	+63.23	114.98	+ 7 1.0	+14.9	0 55.3	+ 6 1	6.3
4	U	4 35.2	1 26 30	+64.16	118.23	+ 9 58.5	+14.6	1 23.8	+ 7 30	6.4
	O	16 57.2	1 50 31	+65.32	122.36	+12 52.1	+14.2	1 32.5	+11 42	5.6
5	U	5 20.1	2 15 27	+66.68	127.35	+15 39.6	+13.6	2 8.3	+14 52	5.8
	O	17 44.0	2 41 27	+68.25	133.16	+18 18.7	+12.8	2 28.1	+14 39	6.1
6	U	6 9.2	3 8 42	+69.96	139.70	+20 46.5	+11.8	3 3.4	+18 27	6.5
	O	18 35.8	3 37 18	+71.76	146.74	+22 59.9	+10.4	3 19.4	+20 30	6.0
7	U	7 3.8	4 7 20	+73.56	154.00	+24 55.3	+ 8.8	4 5.5	+26 15	5.5
	O	19 33.2	4 38 49	+75.27	161.01	+26 28.9	+ 6.8	4 17.2	+25 25	5.3
8	U	8 4.0	5 11 38	+76.75	167.20	+27 37.0	+ 4.5	5 4.2	+27 55	6.0
	O	20 35.8	5 45 33	+77.87	172.01	+28 16.1	+ 1.9	5 20.7	+28 32	1.8
9	U	9 8.5	6 20 16	+78.52	174.90	+28 23.3	− 0.8	6 15.6	+29 35	6.3
	O	21 41.5	6 55 21	+78.66	175.58	+27 56.9	− 3.6	6 32.8	+29 4	5.6
10	U	10 14.4	7 30 21	+78.28	174.02	+26 56.8	− 6.4			
	O	22 46.9	8 4 51	+77.43	170.52	+25 24.0	− 9.0			
11	U	11 18.5	8 38 31	+76.24	165.58	+23 21.2	−11.4			
	O	23 49.0	9 11 5	+74.84	159.80	+20 52.0	−13.4			
12	U	12 18.3	9 42 28	−73.36	154.00	+18 0.8	−15.1			
—		—	—	—	—	—	—			
13	O	0 46.4	10 12 39	−71.89	148.14	+14 52.2	−16.3			
	U	13 13.5	10 41 43	−70.55	142.78	+11 30.9	−17.2			
14	O	1 39.5	11 9 47	−69.39	138.18	+ 8 1.2	−17.7			
	U	14 4.7	11 37 1	−68.43	134.43	+ 4 27.2	−17.9			
15	O	2 29.2	12 3 36	−67.71	131.58	+ 0 52.6	−17.8			
	U	14 53.3	12 29 41	−67.23	129.63	− 2 39.3	−17.5			
16	O	3 17.1	12 55 30	−66.97	128.55	− 6 5.6	−16.9			
	U	15 40.7	13 21 10	−66.93	128.27	− 9 23.8	−16.1			

Juli 28 18h Apogäum. August 11 22h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Aug. 16.0	12 48 40.54	24 52.33	− 5 11 35.1	−3 14 22.0	8.23469	−351	16 5.0
16.5	13 13 32.87	24 51.04	8 25 57.1	3 5 17.2	8.23118	357	15 57.2
17.0	13 38 23.91	24 57.08	11 31 14.3	2 54 17.5	8.22761	356	15 49.4
17.5	14 3 20.99	25 9.36	14 25 31.8	2 41 34.7	8.22405	349	15 41.6
18.0	14 28 30.35	25 26.56	17 7 6.5	2 27 18.6	8.22056	337	15 34.1
18.5	14 53 56.91	25 47.13	19 34 25.1	2 11 37.9	8.21719	319	15 26.9
19.0	15 19 44.04	26 9.32	21 46 3.0	1 54 40.8	8.21400	297	15 20.1
19.5	15 45 53.36	26 31.19	23 40 43.8	1 36 36.4	8.21103	273	15 13.8
20.0	16 12 24.55	26 50.69	25 17 20.2	1 17 35.3	8.20830	246	15 8.1
20.5	16 39 15.24		26 34 55.5		8.20584		15 2.9
		27 5.92		−0 57 49.5		−219	
21.0	17 6 21.16	27 15.14	−27 32 45.0	0 37 34.0	8.20365	191	14 58.4
21.5	17 33 36.30	27 17.06	28 10 19.0	−0 17 5.1	8.20174	162	14 54.5
22.0	18 0 53.36	27 10.95	28 27 24.1	+0 3 19.4	8.20012	134	14 51.1
22.5	18 28 4.31	26 56.80	28 24 4.7	0 23 21.5	8.19878	105	14 48.4
23.0	18 55 1.11	26 35.26	28 0 43.2	0 42 43.8	8.19773	78	14 46.2
23.5	19 21 36.37	26 7.45	27 17 59.4	1 1 11.5	8.19695	54	14 44.7
24.0	19 47 43.82	25 34.95	26 16 47.9	1 18 32.0	8.19641	29	14 43.6
24.5	20 13 18.77	24 59.57	24 58 15.9	1 34 35.8	8.19612	− 6	14 43.0
25.0	20 38 18.34	24 23.09	23 23 40.1	1 49 16.4	8.19606	+ 15	14 42.8
25.5	21 2 41.43		21 34 23.7		8.19621		14 43.1
		23 47.21		+2 2 30.1		+ 35	
26.0	21 26 28.64	23 13.42	−19 31 53.6	2 14 15.1	8.19656	53	14 43.8
26.5	21 49 42.06	22 42.99	17 17 38.5	2 24 31.8	8.19709	70	14 44.9
27.0	22 12 25.05	22 16.96	14 53 6.7	2 33 20.8	8.19779	86	14 46.4
27.5	22 34 42.01	21 56.11	12 19 45.9	2 40 43.6	8.19865	102	14 48.1
28.0	22 56 38.12	21 41.12	9 39 2.3	2 46 41.1	8.19967	116	14 50.2
28.5	23 18 19.24	21 32.52	6 52 21.2	2 51 14.1	8.20083	130	14 52.6
29.0	23 39 51.76	21 30.76	4 1 7.1	2 54 22.6	8.20213	144	14 55.3
29.5	0 1 22.52	21 36.22	− 1 6 44.5	2 56 5.3	8.20357	159	14 58.2
30.0	0 22 58.74	21 49.21	+ 1 49 20.8	2 56 19.5	8.20516	172	15 1.5
30.5	0 44 47.95		4 45 40.3		8.20688		15 5.1
		22 10.01		+2 55 0.8		+185	
31.0	1 6 57.96	22 38.88	+ 7 40 41.1	2 52 3.3	8.20873	200	15 9.0
31.5	1 29 36.84	23 15.90	10 32 44.4	2 47 19.3	8.21073	213	15 13.2
Sept. 1.0	1 52 52.74	24 0.95	13 20 3.7	2 40 38.4	8.21286	226	15 17.7
1.5	2 16 53.69	24 53.63	16 0 42.1	2 31 49.5	8.21512	239	15 22.4
2.0	2 41 47.32	25 53.09	18 32 31.6	2 20 40.0	8.21751	251	15 27.5
2.5	3 7 40.41	26 57.89	20 53 11.6	2 6 57.5	8.22002	261	15 32.9
3.0	3 34 38.30	28 5.71	23 0 9.1	1 50 31.5	8.22263	269	15 38.5
3.5	4 2 44.01	29 13.48	24 50 40.6	1 31 16.3	8.22532	275	15 44.4
4.0	4 31 57.49	30 17.28	26 21 56.9	1 9 13.5	8.22807	276	15 50.4
4.5	5 2 14.77		27 31 10.4		8.23083		15 56.4

August 19 5h 50.2m Erstes Viertel. August 27 8h 52.5m Vollmond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Aug. 16	O	3 17.1	12 55 30	−66.97	128.55	− 6 5.6	−16.9			
	U	15 40.7	13 21 10	−66.93	128.27	− 9 23.8	−16.1			
17	O	4 4.3	13 46 51	−67.07	128.70	−12 31.7	−15.2	13 20.6	−10 42	1.2
	U	16 28.1	14 12 41	−67.38	129.75	−15 27.3	−14.1	13 28.3	− 9 43	5.4
18	O	4 52.2	14 38 48	−67.82	131.30	−18 8.7	−12.8	14 6.1	−15 53	5.1
	U	17 16.6	15 5 15	−68.33	133.18	−20 34.3	−11.4	14 14.4	−12 58	4.5
19	O	5 41.4	15 32 6	−68.88	135.23	−22 42.6	− 9.9	15 1.4	−21 41	6.1
	U	18 6.6	15 59 21	−69.41	137.27	−24 32.2	− 8.3	15 11.3	−22 4	5.8
20	O	6 32.3	16 27 0	−69.87	139.09	−26 2.0	− 6.6	15 53.3	−24 35	5.4
	U	18 58.2	16 54 58	−70.21	140.48	−27 11.0	− 4.8	16 8.5	−24 12	6.3
21	O	7 24.3	17 23 10	−70.39	141.30	−27 58.4	− 3.0	16 38.9	−27 17	6.4
	U	19 50.6	17 51 27	−70.39	141.39	−28 23.8	− 1.2	17 7.0	−27 39	6.1
22	O	8 16.8	18 19 40	−70.17	140.71	−28 27.3	+ 0.6	17 42.1	−27 48	var.
	U	20 42.7	18 47 40	−69.76	139.25	−28 9.1	+ 2.4	17 59.4	−29 35	var.
23	O	9 8.3	19 15 18	−69.16	137.11	−27 29.9	+ 4.1	18 40.2	−27 5	3.3
	U	21 33.4	19 42 27	−68.41	134.40	−26 30.7	+ 5.7	19 1.5	−27 48	3.5
24	O	9 57.9	20 9 1	−67.54	131.30	−25 12.8	+ 7.2	19 24.5	−27 10	5.7
	U	22 21.8	20 34 56	−66.63	127.98	−23 37.5	+ 8.6	19 50.5	−26 32	4.8
25	O	10 45.0	21 0 11	−65.70	124.63	−21 46.4	+ 9.9	20 27.7	−25 15	6.2
	U	23 7.6	21 24 46	−64.79	121.39	−19 41.2	+11.0	20 47.9	−24 7	6.2
26	O	11 29.5	21 48 44	−63.96	118.42	−17 23.5	+12.0	21 19.2	−21 14	5.3
	U	23 50.9	22 12 8	−63.22	115.81	−14 55.0	+12.8	21 32.2	−19 52	4.7
27	O	12 11.8	22 35 4	+62.62	113.57	−12 17.2	+13.5	22 7.7	−14 38	6.2
—		—	—	—	—	—	—	22 19.8	−13 59	5.9
28	U	0 32.3	22 57 37	+62.16	111.95	− 9 31.7	+14.1	22 43.9	−11 1	6.1
	O	12 52.6	23 19 54	+61.87	110.93	− 6 40.0	+14.5	23 13.4	− 9 40	4.6
29	U	1 12.7	23 42 2	+61.77	110.52	− 3 43.6	+14.8	23 43.5	− 3 15	5.6
	O	13 32.8	0 4 9	+61.87	110.78	− 0 44.1	+15.0	23 54.2	− 4 3	5.0
30	U	1 53.0	0 26 23	+62.16	111.73	+ 2 17.0	+15.1	0 20.9	+ 1 27	6.0
	O	14 13.4	0 48 53	+62.67	113.40	+ 5 18.3	+15.1	0 43.8	+ 4 50	5.9
31	U	2 34.3	1 11 47	+63.38	115.82	+ 8 17.9	+14.9	1 9.2	+ 7 7	5.4
	O	14 55.8	1 35 14	+64.31	119.03	+11 14.1	+14.5	1 23.8	+ 7 30	6.4
Sept. 1	U	3 17.9	1 59 24	+65.43	122.99	+14 5.0	+14.0	1 54.8	+11 52	6.0
	O	15 40.9	2 24 26	+66.74	127.71	+16 48.3	+13.2	2 8.3	+14 52	5.8
2	U	4 4.9	2 50 29	+68.21	133.11	+19 21.7	+12.3	2 43.6	+17 55	6.0
	O	16 30.1	3 17 40	+69.80	139.07	+21 42.6	+11.1	3 6.6	+19 24	4.6
3	U	4 56.4	3 46 4	+71.44	145.38	+23 47.8	+ 9.7	3 39.7	+23 50	3.8
	O	17 24.0	4 15 45	+73.07	151.74	+25 34.3	+ 8.0	3 59.1	+23 52	5.6
4	U	5 52.9	4 46 41	+74.57	157.76	+26 58.8	+ 6.0	4 47.3	+27 45	6.0
	O	18 22.9	5 18 45	+75.84	162.97	+27 58.1	+ 3.8	4 59.2	+27 34	6.5

Aug. 24 21h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 4.0	4 31 57.49	30 17.28	+26 21 56.9	+1 9 13.5	8.22807	+276	15 50.4
4.5	5 2 14.77	31 12.73	27 31 10.4	0 44 35.1	8.23083	273	15 56.4
5.0	5 33 27.50	31 55.44	28 15 45.5	+0 17 45.8	8.23356	267	16 2.5
5.5	6 5 22.94	32 21.78	28 33 31.3	−0 10 37.0	8.23623	254	16 8.5
6.0	6 37 44.72	32 29.71	28 22 54.3	0 39 43.8	8.23877	235	16 14.1
6.5	7 10 14.43	32 19.10	27 43 10.5	1 8 39.3	8.24112	210	16 19.4
7.0	7 42 33.53	31 51.88	26 34 31.2	1 36 27.7	8.24322	179	16 24.2
7.5	8 14 25.41	31 11.65	24 58 3.5	2 2 16.8	8.24501	142	16 28.2
8.0	8 45 37.06	30 22.76	22 55 46.7	2 25 24.3	8.24643	100	16 31.4
8.5	9 15 59.82	29 29.80	20 30 22.4	−2 45 19.6	8.24743	+ 53	16 33.7
9.0	9 45 29.62	28 36.89	+17 45 2.8	3 1 42.9	8.24796	+ 3	16 34.9
9.5	10 14 6.51	27 47.30	14 43 19.9	3 14 25.0	8.24799	− 48	16 35.0
10.0	10 41 53.81	27 3.46	11 28 54.9	3 23 24.8	8.24751	100	16 33.9
10.5	11 8 57.27	26 26.96	8 5 30.1	3 28 47.9	8.24651	149	16 31.6
11.0	11 35 24.23	25 58.70	4 36 42.2	3 30 44.1	8.24502	195	16 28.2
11.5	12 1 22.93	25 39.00	+ 1 5 58.1	3 29 26.3	8.24307	238	16 23.8
12.0	12 27 1.93	25 27.79	− 2 23 28.2	3 25 8.8	8.24069	274	16 18.4
12.5	12 52 29.72	25 24.64	5 48 37.0	3 18 6.4	8.23795	303	16 12.2
13.0	13 17 54.36	25 28.80	9 6 43.4	3 8 34.5	8.23492	323	16 5.5
13.5	13 43 23.16	25 39.32	12 15 17.9	−2 56 47.4	8.23169	−338	15 58.3
14.0	14 9 2.48	25 54.97	−15 12 5.3	2 42 58.8	8.22831	345	15 50.9
14.5	14 34 57.45	26 14.21	17 55 4.1	2 27 22.6	8.22486	344	15 43.4
15.0	15 1 11.66	26 35.33	20 22 26.7	2 10 12.2	8.22142	337	15 35.9
15.5	15 27 46.99	26 56.34	22 32 38.9	1 51 41.1	8.21805	324	15 28.7
16.0	15 54 43.33	27 15.23	24 24 20.0	1 32 4.3	8.21481	306	15 21.8
16.5	16 21 58.56	27 30.00	25 56 24.3	1 11 37.7	8.21175	284	15 15.3
17.0	16 49 28.56	27 38.89	27 8 2.0	0 50 38.9	8.20891	257	15 9.4
17.5	17 17 7.45	27 40.53	27 58 40.9	0 29 26.4	8.20634	228	15 4.0
18.0	17 44 47.98	27 34.16	28 28 7.3	−0 8 19.4	8.20406	198	14 59.2
18.5	18 12 22.14	27 19.69	28 36 26.7	+0 12 24.1	8.20208	−166	14 55.1
19.0	18 39 41.83	26 57.73	−28 24 2.6	0 32 26.9	8.20042	133	14 51.7
19.5	19 6 39.56	26 29.42	27 51 35.7	0 51 34.4	8.19909	101	14 49.0
20.0	19 33 8.98	25 56.31	27 0 1.3	1 9 35.3	8.19808	68	14 47.0
20.5	19 59 5.29	25 20.20	25 50 26.0	1 26 21.2	8.19740	37	14 45.6
21.0	20 24 25.49	24 42.90	24 24 4.8	1 41 46.7	8.19703	− 8	14 44.8
21.5	20 49 8.39	24 6.12	22 42 18.1	1 55 48.8	8.19695	+ 20	14 44.7
22.0	21 13 14.51	23 31.37	20 46 29.3	2 8 26.6	8.19715	46	14 45.1
22.5	21 36 45.88	22 59.87	18 38 2.7	2 19 40.1	8.19761	70	14 46.0
23.0	21 59 45.75	22 32.67	16 18 22.6	2 29 29.7	8.19831	91	14 47.4
23.5	22 22 18.42		13 48 52.9		8.19922		14 49.3

Sept. 4 2ʰ 16ᵐ.7 Letzt. Viert. Sept. 10 16ʰ 42ᵐ.1 Neumond. Sept. 17 20ʰ 48ᵐ.3 Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	″	h m	° ′	
Sept. 4	U	5 52.9	4 46 41	+74.57	157.76	+26 58.8	+ 6.0	4 47.3	+27 45	6.0
	O	18 22.9	5 18 45	+75.84	162.97	+27 58.1	+ 3.8	4 59.2	+27 34	6.5
5	U	6 53.9	5 51 44	+76.79	166.91	+28 29.4	+ 1.4	5 45.5	+27 57	5.6
	O	19 25.4	6 25 22	+77.33	169.22	+28 30.4	− 1.2	6 0.8	+29 31	6.3
6	U	7 57.3	6 59 18	+77.42	169.67	+27 59.8	− 3.9	6 57.9	+29 29	5.9
	O	20 29.1	7 33 8	+77.07	168.30	+26 57.6	− 6.5	7 10.5	+28 3	5.9
7	U	9 0.4	8 6 32	+76.33	165.36	+25 24.6	− 9.0	8 5.2	+25 47	5.9
	O	21 31.1	8 39 14	+75.31	161.24	+23 23.1	−11.2	8 23.4	+24 26	6.1
8	U	10 0.9	9 11 2	+74.11	156.44	+20 55.9	−13.2			
	O	22 29.6	9 41 50	+72.83	151.41	+18 6.8	−14.9			
9	U	10 57.3	10 11 39	+71.59	146.55	+14 59.7	−16.2			
	O	23 24.2	10 40 32	+70.45	142.14	+11 38.8	−17.2			
10	U	11 50.2	11 8 35	+69.46	138.37	+ 8 8.3	−17.8			
—		—	—	—	—	—	—			
11	O	0 15.5	11 35 58	−68.68	135.50	+ 4 32.2	−18.1			
	U	12 40.4	12 2 50	−68.11	133.29	+ 0 54.2	−18.1			
12	O	1 4.9	12 29 20	−67.77	131.92	− 2 42.2	−17.9			
	U	13 29.1	12 55 38	−67.63	131.32	− 6 13.6	−17.3			
13	O	1 53.3	13 21 54	−67.70	131.46	− 9 37.1	−16.5			
	U	14 17.6	13 48 17	−67.95	132.25	−12 50.1	−15.6			
14	O	2 42.2	14 14 51	−68.33	133.57	−15 50.1	−14.4			
	U	15 7.0	14 41 44	−68.81	135.28	−18 34.9	−13.0			
15	O	3 32.2	15 9 0	−69.36	137.22	−21 2.7	−11.5			
	U	15 57.8	15 36 39	−69.90	139.19	−23 11.7	− 9.9			
16	O	4 23.8	16 4 41	−70.40	141.00	−25 0.4	− 8.2	15 32.6	−22 51	6.0
	U	16 50.2	16 33 2	−70.79	142.45	−26 27.8	− 6.4	15 48.4	−25 4	4.6
17	O	5 16.7	17 1 37	−71.03	143.33	−27 32.9	− 4.5	16 26.0	−26 21	6.2
	U	17 43.4	17 30 20	−71.08	143.54	−28 15.4	− 2.6	16 38.9	−27 17	6.4
18	O	6 10.0	17 58 59	−70.93	142.96	−28 35.0	− 0.7	17 21.5	−25 52	6.3
	U	18 36.4	18 27 27	−70.56	141.61	−28 32.1	+ 1.2	17 42.1	−27 48	var.
19	O	7 2.5	18 55 34	−70.00	139.52	−28 7.4	+ 3.0	18 16.5	−28 28	6.1
	U	19 28.1	19 23 12	−69.28	136.85	−27 21.7	+ 4.7	18 40.2	−27 5	3.3
20	O	7 53.1	19 50 16	−68.42	133.74	−26 16.3	+ 6.2	19 19.1	−28 2	5.9
	U	20 17.5	20 16 40	−67.50	130.38	−24 52.5	+ 7.7	19 24.5	−27 10	5.7
21	O	8 41.1	20 42 23	−66.53	126.93	−23 11.9	+ 9.0	20 12.9	−22 5	6.0
	U	21 4.1	21 7 25	−65.59	123.58	−21 16.0	+10.2	20 27.7	−25 15	6.2
22	O	9 26.5	21 31 48	−64.69	120.46	−19 6.4	+11.3	21 3.6	−21 33	5.3
	U	21 48.2	21 55 35	−63.88	117.68	−16 44.7	+12.3	21 19.2	−21 14	5.3
23	O	10 9.5	22 18 52	−63.19	115.33	−14 12.4	+13.1	21 46.9	−19 2	6.1
	U	22 30.3	22 41 44	−62.65	113.49	−11 31.0	+13.8	22 7.7	−14 38	6.2

Sept. 9 7^h Perigäum. Sept. 21 9^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Sept. 23.0	21 59 45.75	22 32.67	−16 18 22.6	+2 29 29.7	8.19831	+ 91	14 47.4
23.5	22 22 18.42	22 10.59	13 48 52.9	2 37 56.0	8.19922	110	14 49.3
24.0	22 44 29.01	21 54.23	11 10 56.9	2 44 59.1	8.20032	127	14 51.5
24.5	23 6 23.24	21 44.11	8 25 57.8	2 50 38.6	8.20159	140	14 54.1
25.0	23 28 7.35	21 40.63	5 35 19.2	2 54 52.4	8.20299	152	14 57.0
25.5	23 49 47.98	21 44.10	− 2 40 26.8	2 57 37.7	8.20451	162	15 0.1
26.0	0 11 32.08	21 54.80	+ 0 17 10.9	2 58 50.7	8.20613	170	15 3.5
26.5	0 33 26.88	22 12.96	3 16 1.6	2 58 25.7	8.20783	176	15 7.1
27.0	0 55 39.84	22 38.68	6 14 27.3	2 56 16.1	8.20959	181	15 10.8
27.5	1 18 18.52	23 12.00	9 10 43.4	+2 52 13.7	8.21140	+185	15 14.6
28.0	1 41 30.52	23 52.77	+12 2 57.1	2 46 9.9	8.21325	187	15 18.5
28.5	2 5 23.29	24 40.52	14 49 7.0	2 37 54.7	8.21512	189	15 22.4
29.0	2 30 3.81	25 34.39	17 27 1.7	2 27 18.1	8.21701	191	15 26.5
29.5	2 55 38.20	26 33.01	19 54 19.8	2 14 11.5	8.21892	193	15 30.6
30.0	3 22 11.21	27 34.41	22 8 31.3	1 58 28.2	8.22085	194	15 34.7
30.5	3 49 45.62	28 35.77	24 6 59.5	1 40 6.0	8.22279	194	15 38.9
Okt. 1.0	4 18 21.39	29 33.77	25 47 5.5	1 19 8.9	8.22473	193	15 43.1
1.5	4 47 55.16	30 24.59	27 6 14.4	0 55 49.8	8.22666	193	15 47.3
2.0	5 18 19.75	31 4.45	28 2 4.2	0 30 31.1	8.22859	190	15 51.5
2.5	5 49 24.20	31 30.19	28 32 35.3	+0 3 45.0	8.23049	+185	15 55.7
3.0	6 20 54.39	31 39.81	+28 36 20.3	−0 23 47.6	8.23234	179	15 59.8
3.5	6 52 34.20	31 33.02	28 12 32.7	0 51 20.7	8.23413	171	16 3.7
4.0	7 24 7.22	31 11.16	27 21 12.0	1 18 8.1	8.23584	158	16 7.5
4.5	7 55 18.38	30 37.02	26 3 3.9	1 43 27.8	8.23742	141	16 11.0
5.0	8 25 55.40	29 54.36	24 19 36.1	2 6 43.5	8.23883	122	16 14.2
5.5	8 55 49.76	29 7.14	22 12 52.6	2 27 27.9	8.24005	99	16 17.0
6.0	9 24 56.90	28 19.10	19 45 24.7	2 45 21.9	8.24104	71	16 19.2
6.5	9 53 16.00	27 33.42	17 0 2.8	3 0 13.4	8.24175	39	16 20.8
7.0	10 20 49.42	26 52.53	13 59 49.4	3 11 56.6	8.24214	+ 5	16 21.7
7.5	10 47 41.95	26 18.19	10 47 52.8	−3 20 29.5	8.24219	− 32	16 21.8
8.0	11 14 0.14	25 51.50	+ 7 27 23.3	3 25 53.4	8.24187	70	16 21.0
8.5	11 39 51.64	25 33.00	4 1 29.9	3 28 11.2	8.24117	108	16 19.4
9.0	12 5 24.64	25 22.88	+ 0 33 18.7	3 27 27.9	8.24009	146	16 17.0
9.5	12 30 47.52	25 20.93	− 2 54 9.2	3 23 49.9	8.23863	183	16 13.8
10.0	12 56 8.45	25 26.60	6 17 59.1	3 17 24.1	8.23680	216	16 9.7
10.5	13 21 35.05	25 39.11	9 35 23.2	3 8 19.2	8.23464	244	16 4.8
11.0	13 47 14.16	25 57.34	12 43 42.4	2 56 44.6	8.23220	267	15 59.4
11.5	14 13 11.50	26 19.86	15 40 27.0	2 42 51.5	8.22953	286	15 53.6
12.0	14 39 31.36	26 44.86	18 23 18.5	2 26 52.4	8.22667	298	15 47.3
12.5	15 6 16.22		20 50 10.9		8.22369		15 40.8

Sept. 26 0h 27m.8 Vollmond. Okt. 3 9h 41m.7 Letzt. Viert. Okt. 10 2h 34m.2 Neumond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Vergl.-Sterne Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Sept. 23	O	10 9.5	22 18 52	−63.19	115.33	−14 12.4	+13.1	21 46.9	−19 2	6.1
	U	22 30.3	22 41 44	−62.65	113.49	−11 31.0	+13.8	22 7.7	−14 38	6.2
24	O	10 50.9	23 4 18	−62.27	112.21	− 8 42.1	+14.4	22 25.4	−13 22	6.2
	U	23 11.2	23 26 39	−62.06	111.52	− 5 47.0	+14.8	22 48.9	−12 5	5.8
25	O	11 31.4	23 48 56	−62.04	111.47	− 2 47.4	+15.1	23 16.2	− 6 23	6.3
	U	23 51.8	0 11 17	−62.22	112.12	+ 0 15.1	+15.3	23 43.5	− 3 15	5.6
26	O	12 12.3	0 33 49	+62.59	113.45	+ 3 19.1	+15.3	0 3.8	− 2 56	6.3
—		—	—	—	—	—	—	0 20.9	+ 1 27	6.0
27	U	0 33.1	0 56 42	+63.17	115.48	+ 6 22.6	+15.2	0 55.3	+ 6 1	6.3
	O	12 54.4	1 20 2	+63.96	118.24	+ 9 23.9	+15.0	1 9.2	+ 7 7	5.4
28	U	1 16.4	1 44 0	+64.94	121.71	+12 20.9	+14.5	1 32.5	+11 42	5.6
	O	13 39.1	2 8 44	+66.10	125.87	+15 11.4	+13.9	1 54.8	+11 52	6.0
29	U	2 2.7	2 34 21	+67.42	130.67	+17 52.9	+13.0	2 26.1	+17 19	6.4
	O	14 27.2	3 0 59	+68.86	135.98	+20 22.9	+11.9	2 50.9	+17 59	6.0
30	U	2 52.9	3 28 43	+70.36	141.65	+22 38.5	+10.6	3 23.3	+22 30	6.1
	O	15 19.8	3 57 36	+71.87	147.42	+24 36.7	+ 9.0	3 39.6	+24 1	5.4
Okt. 1	U	3 47.8	4 27 37	+73.29	152.94	+26 14.5	+ 7.2	4 18.7	+24 6	6.1
	O	16 16.8	4 58 41	+74.55	157.85	+27 28.9	+ 5.2	4 47.3	+27 45	6.0
2	U	4 46.7	5 30 38	+75.53	161.74	+28 17.4	+ 2.9	5 20.8	+28 32	1.8
	O	17 17.2	6 3 15	+76.17	164.25	+28 37.6	+ 0.5	5 45.5	+27 57	5.6
3	U	5 48.1	6 36 13	+76.41	165.19	+28 28.3	− 2.0	6 29.7	+28 6	5.1
	O	18 19.1	7 9 13	+76.25	164.49	+27 48.9	− 4.5	6 58.0	+29 29	5.9
4	U	6 49.7	7 41 56	+75.72	162.31	+26 40.0	− 7.0	7 38.8	+26 0	5.5
	O	19 19.8	8 14 5	+74.89	158.97	+25 2.8	− 9.2	7 55.6	+25 38	6.1
5	U	7 49.2	8 45 30	+73.85	154.84	+22 59.5	−11.3	8 38.2	+21 47	4.8
	O	20 17.7	9 16 3	+72.70	150.35	+20 33.0	−13.1	9 2.4	+23 20	6.3
6	U	8 45.3	9 45 41	+71.53	145.88	+17 46.4	−14.6	9 39.6	+19 16	6.5
	O	21 12.0	10 14 28	+70.43	141.72	+14 43.0	−15.9	10 2.6	+17 12	3.6
7	U	9 37.9	10 42 27	+69.45	138.08	+11 26.5	−16.8			
	O	22 3.2	11 9 46	+68.65	135.13	+ 8 0.4	−17.5			
8	U	10 8.0	11 36 35	+68.04	132.94	+ 4 28.0	−17.9			
	O	22 52.4	12 3 1	+67.66	131.56	+ 0 52.9	−18.0			
9	U	11 16.6	12 29 16	+67.48	130.97	− 2 41.7	−17.8			
	O	23 40.8	12 55 28	+67.51	131.14	− 6 12.6	−17.3			
10	U	12 5.0	13 21 46	−67.74	131.96	− 9 36.7	−16.6			
—		—	—	—	—	—	—			
11	O	0 29.5	13 48 18	−68.14	133.40	−12 51.2	−15.7			
	U	12 54.4	14 15 10	−68.67	135.32	−15 53.3	−14.6			
12	O	1 19.6	14 42 28	−69.27	137.56	−18 40.4	−13.2			
	U	13 45.3	15 10 13	−69.92	139.95	−21 10.2	−11.7			

Okt. 7 8^h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR. h m s	Diff. m s	Wahre Dekl. ° ′ ″	Diff. ° ′ ″	Log. sin. A. H. Par.	Diff.	Halbm. ′ ″
Okt. 12.0	14 39 31.36	26 44.86	−18 23 18.5	−2 26 52.4	8.22667	−298	15 47.3
12.5	15 6 16.22	27 10.34	20 50 10.9	2 9 2.2	8.22369	304	15 40.8
13.0	15 33 26.56	27 34.04	22 59 13.1	1 49 37.7	8.22065	304	15 34.2
13.5	16 1 0.60	27 53.67	24 48 50.8	1 28 58.9	8.21761	297	15 27.7
14.0	16 28 54.27	28 7.11	26 17 49.7	1 7 27.6	8.21464	285	15 21.4
14.5	16 57 1.38	28 12.62	27 25 17.3	0 45 27.1	8.21179	269	15 15.4
15.0	17 25 14.00	28 9.11	28 10 44.4	0 23 21.7	8.20910	247	15 9.8
15.5	17 53 23.11	27 56.25	28 34 6.1	−0 1 35.1	8.20663	222	15 4.6
16.0	18 21 19.36	27 34.56	28 35 41.2	+0 19 31.6	8.20441	192	15 0.0
16.5	18 48 53.92	27 5.25	28 16 9.6	+0 39 40.6	8.20249	−162	14 56.0
17.0	19 15 59.17	26 30.05	−27 36 29.0	0 58 38.4	8.20087	129	14 52.7
17.5	19 42 29.22	25 51.02	26 37 50.6	1 16 15.4	8.19958	95	14 50.0
18.0	20 8 20.24	25 10.25	25 21 35.2	1 32 27.1	8.19863	60	14 48.1
18.5	20 33 30.49	24 29.74	23 49 8.1	1 47 11.9	8.19803	− 25	14 46.9
19.0	20 58 0.23	23 51.13	22 1 56.2	2 0 30.5	8.19778	+ 8	14 46.3
19.5	21 21 51.36	23 15.94	20 1 25.7	2 12 25.3	8.19786	42	14 46.5
20.0	21 45 7.30	22 45.29	17 49 0.4	2 22 58.9	8.19828	72	14 47.4
20.5	22 7 52.59	22 20.02	15 26 1.5	2 32 14.0	8.19900	102	14 48.8
21.0	22 30 12.61	22 0.83	12 53 47.5	2 40 12.7	8.20002	129	14 50.9
21.5	22 52 13.44	21 48.22	10 13 34.8	+2 46 54.9	8.20131	+152	14 53.6
22.0	23 14 1.66	21 42.58	− 7 26 39.9	2 52 19.1	8.20283	172	14 56.7
22.5	23 35 44.24	21 44.22	4 34 20.8	2 56 22.6	8.20455	189	15 0.3
23.0	23 57 28.46	21 53.40	− 1 37 58.2	2 59 0.3	8.20644	202	15 4.2
23.5	0 19 21.86	22 10.35	+ 1 21 2.1	3 0 5.2	8.20846	211	15 8.4
24.0	0 41 32.21	22 35.21	4 21 7.3	2 59 28.3	8.21057	217	15 12.8
24.5	1 4 7.42	23 7.98	7 20 35.6	2 56 58.9	8.21274	219	15 17.4
25.0	1 27 15.40	23 48.53	10 17 34.5	2 52 25.5	8.21493	217	15 22.1
25.5	1 51 3.93	24 36.42	13 10 0.0	2 45 34.9	8.21710	212	15 26.7
26.0	2 15 40.35	25 30.85	15 55 34.9	2 36 14.3	8.21922	205	15 31.2
26.5	2 41 11.20	26 30.42	18 31 49.2	+2 24 12.6	8.22127	+195	15 35.6
27.0	3 7 41.62	27 33.06	+20 56 1.8	2 9 21.7	8.22322	184	15 39.8
27.5	3 35 14.68	28 35.96	23 5 23.5	1 51 38.1	8.22506	171	15 43.8
28.0	4 3 50.64	29 35.58	24 57 1.6	1 31 6.1	8.22677	158	15 47.5
28.5	4 33 26.22	30 27.90	26 28 7.7	1 8 0.6	8.22835	143	15 51.0
29.0	5 3 54.12	31 8.81	27 36 8.3	0 42 46.3	8.22978	128	15 54.1
29.5	5 35 2.93	31 34.94	28 18 54.6	+0 15 59.5	8.23106	115	15 56.9
30.0	6 6 37.87	31 44.06	28 34 54.1	−0 11 35.4	8.23221	102	15 59.5
30.5	6 38 21.93	31 35.75	28 23 18.7	0 39 9.7	8.23323	88	16 1.7
31.0	7 9 57.68	31 11.44	27 44 9.0	1 5 55.0	8.23411	75	16 3.7
31.5	7 41 9.12		26 38 14.0		8.23486		16 5.3

Oktober 17 14ʰ 59ᵐ.8 Erstes Viertel. Oktober 25 15ʰ 24ᵐ.1 Vollmond.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
	h m	h m s	s	s	° '	"	h m	° '	
Okt. 12 O	1 19.6	14 42 28	−69.27	137.56	−18 40.4	−13.2			
U	13 45.3	15 10 13	−69.92	139.95	−21 10.2	−11.7			
13 O	2 11.5	15 38 27	−70.55	142.25	−23 20.7	−10.0			
U	14 38.2	16 7 7	−71.09	144.22	−25 10.2	− 8.2			
14 O	3 5.1	16 36 7	−71.49	145.67	−26 37.3	− 6.3			
U	15 32.3	17 5 20	−71.70	146.37	−27 41.0	− 4.3			
15 O	3 59.5	17 34 37	−71.69	146.23	−28 21.0	− 2.3	17 1.5	−26 24	6.2
U	16 26.6	18 3 46	−71.45	145.17	−28 37.2	− 0.4	17 17.8	−28 4	5.4
16 O	4 53.4	18 32 37	−70.97	143.25	−28 30.2	+ 1.5	17 53.1	−28 45	5.8
U	17 19.8	19 1 0	−70.30	140.58	−28 1.0	+ 3.3	18 11.9	−28 41	6.0
17 O	5 45.5	19 28 47	−69.46	137.33	−27 10.6	+ 5.0	18 49.8	−26 24	2.1
U	18 10.5	19 55 52	−68.50	133.71	−26 0.7	+ 6.6	19 7.9	−26 3	5.9
18 O	6 34.8	20 22 14	−67.48	129.94	−24 32.8	+ 8.0	19 50.5	−26 32	4.8
U	18 58.4	20 47 50	−66.46	126.21	−22 48.5	+ 9.3	20 12.9	−22 5	6.0
19 O	7 21.3	21 12 42	−65.48	122.69	−20 49.6	+10.5	20 35.0	−24 6	6.3
U	19 43.4	21 36 54	−64.57	119.50	−18 37.5	+11.5	21 3.6	−21 33	5.3
20 O	8 5.0	22 0 30	−63.78	116.77	−16 13.8	+12.4	21 30.0	−20 29	5.7
U	20 26.1	22 23 37	−63.12	114.55	−13 39.9	+13.2	21 46.9	−19 2	6.1
21 O	8 46.8	22 46 20	−62.63	112.91	−10 57.3	+13.9	22 14.3	−13 45	6.1
U	21 7.2	23 8 48	−62.32	111.91	− 8 7.3	+14.4	22 25.6	−15 2	6.1
22 O	9 27.5	23 31 8	−62.18	111.56	− 5 11.2	+14.9	23 0.6	− 8 10	5.4
U	21 47.9	23 53 29	−62.25	111.90	− 2 10.6	+15.2	23 16.2	− 6 23	6.3
23 O	10 8.3	0 15 58	−62.53	112.94	+ 0 53.2	+15.4	23 43.5	− 3 15	5.6
U	22 29.0	0 38 44	−63.02	114.73	+ 3 58.4	+15.4	0 3.3	− 3 2	6.3
24 O	10 50.2	1 1 56	−63.71	117.26	+ 7 3.3	+15.3	0 25.7	+ 4 22	6.6
U	23 12.0	1 25 42	−64.62	120.53	+10 5.9	+15.1	0 46.8	+ 2 54	6.5
25 O	11 34.5	1 50 12	−65.71	124.55	+13 4.0	+14.6	1 11.2	+ 9 19	7.1
U	23 57.8	2 15 36	+66.98	129.47	+15 55.1	+13.9	1 32.5	+11 42	5.6
26 O	12 22.1	2 41 59	+68.40	134.78	+18 36.4	+13.0	2 8.3	+14 52	5.8
—	—	—	—	—	—	—	2 26.1	+17 19	6.4
27 U	0 47.6	3 9 29	+69.91	140.51	+21 5.1	+11.8	3 6.7	+19 24	4.6
O	13 14.2	3 38 9	+71.44	146.41	+23 17.8	+10.3	3 19.4	+20 30	6.0
28 U	1 42.0	4 7 59	+72.92	152.16	+25 11.2	+ 8.6	4 5.5	+26 15	5.5
O	14 10.9	4 38 55	+74.24	157.35	+26 42.3	+ 6.6	4 18.8	+24 6	6.1
29 U	2 40.7	5 10 48	+75.31	161.54	+27 48.0	+ 4.3	5 4.3	+27 55	6.0
O	15 11.3	5 43 24	+76.04	164.37	+28 25.8	+ 1.9	5 20.8	+28 32	1.8
30 U	3 42.2	6 16 25	+76.37	165.56	+28 34.3	− 0.5	6 9.8	+29 32	4.4
O	16 13.2	6 49 31	+76.27	165.01	+28 12.6	− 3.1	6 29.7	+28 6	5.1
31 U	4 44.0	7 22 20	+75.78	162.83	+27 21.3	− 5.5	7 19.1	+27 49	5.7
O	17 14.2	7 54 35	+74.96	159.35	+26 1.5	− 7.8	7 38.8	+26 0	5.5

Oktober 19 3h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum		Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Okt.	31.0	7 9 57.68	31 11.44	+27 44 9.0	−1 5 55.0	8.23411	+75	16 3.7
	31.5	7 41 9.12	30 34.07	26 38 14.0	1 31 9.0	8.23486	62	16 5.3
Nov.	1.0	8 11 43.19	29 47.58	25 7 5.0	1 54 18.0	8.23548	49	16 6.7
	1.5	8 41 30.77	28 56.27	23 12 47.0	2 14 58.5	8.23597	36	16 7.8
	2.0	9 10 27.04	28 4.04	20 57 48.5	2 32 56.3	8.23633	23	16 8.6
	2.5	9 38 31.08	27 14.23	18 24 52.2	2 48 5.0	8.23656	+8	16 9.1
	3.0	10 5 45.31	26 29.45	15 36 47.2	3 0 23.5	8.23664	−9	16 9.3
	3.5	10 32 14.76	25 51.52	12 36 23.7	3 9 54.1	8.23655	27	16 9.1
	4.0	10 58 6.28	25 21.57	9 26 29.6	3 16 40.0	8.23628	45	16 8.5
	4.5	11 23 27.85	25 0.25	6 9 49.6	−3 20 44.8	8.23583	−65	16 7.5
	5.0	11 48 28.10	24 47.83	+2 49 4.8	3 22 11.9	8.23518	87	16 6.1
	5.5	12 13 15.93	24 44.23	−0 33 7.1	3 21 4.0	8.23431	109	16 4.1
	6.0	12 38 0.16	24 49.05	3 54 11.1	3 17 23.1	8.23322	131	16 1.7
	6.5	13 2 49.21	25 1.71	7 11 34.2	3 11 11.0	8.23191	154	15 58.8
	7.0	13 27 50.92	25 21.29	10 22 45.2	3 2 30.1	8.23037	175	15 55.4
	7.5	13 53 12.21	25 46.55	13 25 15.3	2 51 23.4	8.22862	195	15 51.6
	8.0	14 18 58.76	26 15.93	16 16 38.7	2 37 56.4	8.22667	212	15 47.3
	8.5	14 45 14.69	26 47.46	18 54 35.1	2 22 16.9	8.22455	227	15 42.7
	9.0	15 12 2.15	27 18.78	21 16 52.0	2 4 36.0	8.22228	239	15 37.8
	9.5	15 39 20.93	27 47.36	23 21 28.0	−1 45 9.9	8.21989	−245	15 32.6
	10.0	16 7 8.29	28 10.60	−25 6 37.9	1 24 18.4	8.21744	248	15 27.4
	10.5	16 35 18.89	28 26.08	26 30 56.3	1 2 25.7	8.21496	247	15 22.1
	11.0	17 3 44.97	28 31.90	27 33 22.0	0 39 59.4	8.21249	240	15 16.9
	11.5	17 32 16.87	28 27.01	28 13 21.4	−0 17 28.2	8.21009	229	15 11.8
	12.0	18 0 43.88	28 11.30	28 30 49.6	+0 4 39.7	8.20780	214	15 7.0
	12.5	18 28 55.18	27 45.58	28 26 9.9	0 25 59.2	8.20566	194	15 2.6
	13.0	18 56 40.76	27 11.56	28 0 10.7	0 46 9.7	8.20372	172	14 58.5
	13.5	19 23 52.32	26 31.44	27 14 1.0	1 4 56.5	8.20200	145	14 55.0
	14.0	19 50 23.76	25 47.67	26 9 4.5	1 22 10.5	8.20055	116	14 52.0
	14.5	20 16 11.43	25 2.67	24 46 54.0	+1 37 48.1	8.19939	−84	14 49.6
	15.0	20 41 14.10	24 18.63	−23 9 5.9	1 51 50.0	8.19855	51	14 47.9
	15.5	21 5 32.73	23 37.40	21 17 15.9	2 4 19.6	8.19804	−16	14 46.9
	16.0	21 29 10.13	23 0.45	19 12 56.3	2 15 22.1	8.19788	+20	14 46.6
	16.5	21 52 10.58	22 28.90	16 57 34.2	2 25 2.9	8.19808	55	14 47.0
	17.0	22 14 39.48	22 3.57	14 32 31.3	2 33 27.6	8.19863	90	14 48.1
	17.5	22 36 43.05	21 45.15	11 59 3.7	2 40 39.6	8.19953	123	14 49.9
	18.0	22 58 28.20	21 34.05	9 18 24.1	2 46 41.3	8.20076	155	14 52.4
	18.5	23 20 2.25	21 30.64	6 31 42.8	2 51 32.9	8.20231	184	14 55.6
	19.0	23 41 32.89	21 35.27	3 40 9.9	2 55 11.6	8.20415	211	14 59.4
	19.5	0 3 8.16		0 44 58.3		8.20626		15 3.8

Nov. 1 16h 31.2m Letzt. Viert. Nov. 8 14h 58.4m Neumond. Nov. 16 11h 36.9m Erst. Viert.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Okt. 31	U	4 44.0	7 22 20	+75.78	162.83	+27 21.3	− 5.5	7 19.1	+27 49	5.7
	O	17 14.2	7 54 35	+74.96	159.35	+26 1.5	− 7.8	7 38.8	+26 0	5.5
Nov. 1	U	5 43.6	8 26 3	+73.89	154.96	+24 15.3	− 9.9	8 23.4	+24 26	6.1
	O	18 12.1	8 56 35	+72.69	150.12	+22 5.5	−11.7	8 38.2	+21 47	4.8
2	U	6 39.6	9 26 8	+71.45	145.23	+19 35.0	−13.3	9 14.1	+18 5	6.6
	O	19 6.2	9 54 44	+70.24	140.62	+16 47.0	−14.6	9 39.6	+19 16	6.5
3	U	7 31.9	10 22 28	+69.15	136.54	+13 44.8	−15.7	10 17.1	+15 25	6.1
	O	19 56.8	10 49 26	+68.23	133.13	+10 31.5	−16.5	10 27.5	+14 35	5.8
4	U	8 21.1	11 15 48	+67.50	130.53	+ 7 10.2	−17.0	11 9.5	+ 8 33	5.8
	O	20 45.0	11 41 43	+66.99	128.76	+ 3 43.7	−17.3	11 16.6	+ 6 31	4.2
5	U	9 8.6	12 7 23	+66.70	127.84	+ 0 15.0	−17.4			
	O	21 32.1	12 32 55	+66.65	127.74	− 3 13.1	−17.2			
6	U	9 55.7	12 58 31	+66.79	128.44	− 6 37.9	−16.8			
	O	22 19.5	13 24 20	+67.15	129.86	− 9 56.5	−16.2			
7	U	10 43.6	13 50 30	+67.67	131.90	−13 6.4	−15.4			
	O	23 8.2	14 17 7	+68.32	134.44	−16 4.7	−14.3			
8	U	11 33.3	14 44 16	+69.06	137.29	−18 49.0	−13.0			
	O	23 59.0	15 12 0	−69.83	140.11	−21 16.7	−11.5			
9	U	12 25.3	15 40 19	−70.56	142.93	−23 25.5	− 9.9			
—		—	—	—	—	—	—			
10	O	0 52.1	16 9 10	−71.19	145.37	−25 13.4	− 8.1			
	U	13 19.3	16 38 26	−71.67	147.16	−26 38.9	− 6.2			
11	O	1 46.8	17 7 58	−71.92	148.08	−27 40.7	− 4.2			
	U	14 14.4	17 37 36	−71.93	147.98	−28 18.3	− 2.1			
12	O	2 41.8	18 7 6	−71.67	146.81	−28 31.7	− 0.1			
	U	15 8.9	18 36 15	−71.16	144.65	−28 21.4	+ 1.8			
13	O	3 35.5	19 4 53	−70.41	141.64	−27 48.4	+ 3.6			
	U	16 1.4	19 32 51	−69.51	138.00	−26 54.2	+ 5.3			
14	O	4 26.6	20 0 2	−68.48	133.98	−25 40.6	+ 6.9	19 24.5	−27 10	5.7
	U	16 50.9	20 26 24	−67.39	129.83	−24 9.2	+ 8.3	19 50.5	−26 32	4.8
15	O	5 14.4	20 51 56	−66.31	125.75	−22 21.9	+ 9.6	20 27.7	−25 15	6.2
	U	17 37.2	21 16 41	−65.28	121.95	−20 20.5	+10.7	20 35.0	−24 6	6.3
16	O	5 59.2	21 40 43	−64.34	118.54	−18 6.7	+11.6	21 10.7	−21 1	5.3
	U	18 20.5	22 4 7	−63.53	115.66	−15 42.0	+12.5	21 25.1	−19 32	6.5
17	O	6 41.3	22 27 0	−62.88	113.37	−13 7.8	+13.2	21 57.7	−17 23	6.5
	U	19 1.8	22 49 30	−62.40	111.72	−10 25.7	+13.8	22 14.3	−13 45	6.1
18	O	7 22.0	23 11 43	−62.10	110.77	− 7 36.7	+14.3	22 43.9	−11 1	6.1
	U	19 42.1	23 33 50	−62.02	110.54	− 4 42.1	+14.7	23 0.6	− 8 10	5.4
19	O	8 2.2	23 55 59	−62.14	111.05	− 1 43.2	+15.0	23 27.0	− 4 34	6.5
	U	20 22.5	0 18 19	−62.49	112.35	+ 1 18.8	+15.2	23 43.5	− 3 15	5.6

Nov. 3 0^h Perigäum. Nov. 15 23^h Apogäum.

Mittlerer Mittag und Mitternacht.

Datum		Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
		h m s	m s	° ′ ″	° ′ ″			′ ″
Nov.	19.0	23 41 32.89	21 35.27	− 3 40 9.9	+2 55 11.6	8.20415	+211	14 59.4
	19.5	0 3 8.16	21 48.22	− 0 44 58.3	2 57 32.8	8.20626	233	15 3.8
	20.0	0 24 56.38	22 9.68	+ 2 12 34.5	2 58 28.1	8.20859	252	15 8.7
	20.5	0 47 6.06	22 39.86	5 11 2.6	2 57 46.9	8.21111	266	15 14.0
	21.0	1 9 45.92	23 18.82	8 8 49.5	2 55 16.0	8.21377	275	15 19.6
	21.5	1 33 4.74	24 6.37	11 4 5.5	2 50 39.7	8.21652	279	15 25.4
	22.0	1 57 11.11	25 2.01	13 54 45.2	2 43 40.5	8.21931	276	15 31.4
	22.5	2 22 13.12	26 4.74	16 38 25.7	2 34 0.6	8.22207	269	15 37.3
	23.0	2 48 17.86	27 12.84	19 12 26.3	2 21 23.5	8.22476	257	15 43.1
	23.5	3 15 30.70	28 23.60	21 33 49.8	+2 5 37.0	8.22733	+240	15 48.7
	24.0	3 43 54.30	29 33.49	+23 39 26.8	1 46 36.3	8.22973	217	15 54.0
	24.5	4 13 27.79	30 38.00	25 26 3.1	1 24 27.1	8.23190	192	15 58.8
	25.0	4 44 5.79	31 32.16	26 50 30.2	0 59 28.7	8.23382	164	16 3.0
	25.5	5 15 37.95	32 11.21	27 49 58.9	0 32 16.4	8.23546	134	16 6.7
	26.0	5 47 49.16	32 31.44	28 22 15.3	+0 3 38.7	8.23680	103	16 9.7
	26.5	6 20 20.60	32 31.07	28 25 54.0	−0 25 26.2	8.23783	72	16 12.0
	27.0	6 52 51.67	32 10.65	28 0 27.8	0 53 57.5	8.23855	42	16 13.6
	27.5	7 25 2.32	31 32.98	27 6 30.3	1 20 59.0	8.23897	+ 13	16 14.5
	28.0	7 56 35.30	30 42.39	25 45 31.3	1 45 45.3	8.23910	− 14	16 14.8
	28.5	8 27 17.69	29 44.00	23 59 46.0	−2 7 45.2	8.23896	− 38	16 14.5
	29.0	8 57 1.69	28 42.73	+21 52 0.8	2 26 40.9	8.23858	59	16 13.6
	29.5	9 25 44.42	27 42.77	19 25 19.9	2 42 27.0	8.23799	77	16 12.3
	30.0	9 53 27.19	26 47.50	16 42 52.9	2 55 6.7	8.23722	93	16 10.6
	30.5	10 20 14.69	25 59.21	13 47 46.2	3 4 48.1	8.23629	107	16 8.5
Dez.	1.0	10 46 13.90	25 19.37	10 42 58.1	3 11 41.7	8.23522	118	16 6.1
	1.5	11 11 33.27	24 48.77	7 31 16.4	3 15 58.0	8.23404	127	16 3.5
	2.0	11 36 22.04	24 27.83	4 15 18.4	3 17 46.9	8.23277	136	16 0.7
	2.5	12 0 49.87	24 16.52	+ 0 57 31.5	3 17 16.1	8.23141	144	15 57.7
	3.0	12 25 6.39	24 14.51	− 2 19 44.6	3 14 30.4	8.22997	150	15 54.5
	3.5	12 49 20.90	24 21.39	5 34 15.0	−3 9 33.4	8.22847	−156	15 51.2
	4.0	13 13 42.29	24 36.40	− 8 43 48.4	3 2 27.2	8.22691	163	15 47.8
	4.5	13 38 18.69	24 58.52	11 46 15.6	2 53 12.3	8.22528	170	15 44.3
	5.0	14 3 17.21	25 26.57	14 39 27.9	2 41 49.3	8.22358	176	15 40.6
	5.5	14 28 43.78	25 58.78	17 21 17.2	2 28 20.1	8.22182	181	15 36.8
	6.0	14 54 42.56	26 33.14	19 49 37.3	2 12 48.4	8.22001	186	15 32.9
	6.5	15 21 15.70	27 7.29	22 2 25.7	1 55 22.1	8.21815	190	15 28.9
	7.0	15 48 22.99	27 38.48	23 57 47.8	1 36 13.1	8.21625	194	15 24.8
	7.5	16 16 1.47	28 3.93	25 34 0.9	1 15 38.8	8.21431	196	15 20.7
	8.0	16 44 5.40	28 21.12	26 49 39.7	0 54 1.8	8.21235	194	15 16.6
	8.5	17 12 26.52		27 43 41.5		8.21041		15 12.5

Nov. 24 5ʰ 5ᵐ.8 Vollmond. Nov. 30 23ʰ 58ᵐ.4 Letztes Viertel.

Im Meridian von Berlin.

Datum und Kulmination	Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Vergl.-Sterne Dekl.	Gr.
	h m	h m s	s	s	° ′	′	h m	° ′	
Nov. 19 O	8 2.2	23 55 59	−62.14	111.05	− 1 43.2	+15.0	23 27.0	− 4 34	6.5
U	20 22.5	0 18 19	−62.49	112.35	+ 1 18.8	+15.2	23 43.5	− 3 15	5.6
20 O	8 43.2	0 41 0	−63.06	114.45	+ 4 22.3	+15.3	0 13.3	+ 1 12	6.3
U	21 4.4	1 4 11	−63.85	117.38	+ 7 25.6	+15.2	0 20.9	+ 1 27	6.0
21 O	9 26.2	1 28 2	−64.87	121.15	+10 27.0	+15.0	0 58.4	+ 7 25	4.5
U	21 48.8	1 52 44	−66.09	125.73	+13 24.1	+14.5	1 9.2	+ 7 7	5.4
22 O	10 12.5	2 18 25	−67.51	131.08	+16 14.5	+13.8	1 46.3	+10 36	6.0
U	22 37.3	2 45 15	−69.07	137.08	+18 55.3	+12.9	1 57.9	+13 3	6.3
23 O	11 3.3	3 13 20	−70.73	143.56	+21 23.2	+11.7	2 39.5	+17 24	6.5
U	23 30.6	3 42 44	−72.41	150.19	+23 34.7	+10.2	2 53.1	+20 19	5.8
24 O	11 59.3	4 13 26	+73.98	156.85	+25 26.0	+ 8.3	3 34.0	+20 38	6.5
—	—	—	—	—	—	—	3 51.9	+22 55	6.0
25 U	0 29.2	4 45 21	+75.37	162.49	+26 53.4	+ 6.2	4 47.4	+27 45	6.0
O	13 0.1	5 18 18	+76.45	166.85	+27 53.8	+ 3.8	4 59.2	+27 34	6.5
26 U	1 31.7	5 51 57	+77.11	169.47	+28 24.3	+ 1.2	5 47.9	+27 36	4.6
O	14 3.6	6 25 56	+77.30	170.08	+28 23.6	− 1.4	6 0.8	+29 31	6.3
27 U	2 35.4	6 59 51	+77.00	168.65	+27 51.2	− 4.0	6 58.0	+29 29	5.9
O	15 6.8	7 33 18	+76.27	165.42	+26 48.0	− 6.5	7 10.5	+28 3	5.9
28 U	3 37.4	8 5 58	+75.20	160.82	+25 16.1	− 8.8	7 56.5	+25 20	6.2
O	16 7.0	8 37 37	+73.89	155.36	+23 18.3	−10.8	8 15.4	+24 18	5.9
29 U	4 35.5	9 8 8	+72.48	149.61	+20 58.0	−12.5	9 4.4	+22 24	5.2
O	17 2.9	9 37 31	+71.08	143.98	+18 18.7	−14.0	9 34.0	+20 42	6.7
30 U	5 29.1	10 5 48	+69.75	138.80	+15 24.2	−15.1	10 1.0	+16 11	6.3
O	17 54.4	10 33 8	+68.58	134.32	+12 17.8	−15.9	10 17.2	+15 25	6.1
Dez. 1 U	6 18.9	10 59 38	+67.60	130.66	+ 9 2.8	−16.5	11 0.5	+ 7 49	4.7
O	18 42.7	11 25 29	+66.84	127.90	+ 5 42.0	−16.9	11 9.5	+ 8 33	5.8
2 U	7 6.0	11 50 53	+66.33	126.06	+ 2 18.4	−17.0	11 46.2	+ 2 16	3.8
O	19 29.1	12 15 59	+66.05	125.14	− 1 5.7	−16.9	12 5.2	+ 2 24	6.2
3 U	7 52.1	12 41 0	+66.01	125.10	− 4 27.7	−16.7	12 37.2	− 0 58	2.9
O	20 15.1	13 6 5	+66.19	125.88	− 7 45.3	−16.2	12 49.1	− 3 45	6.5
4 U	8 38.4	13 31 23	+66.57	127.43	−10 56.0	−15.5	13 28.4	− 9 43	5.4
O	21 2.0	13 57 4	+67.12	129.62	−13 57.6	−14.7	13 41.3	−11 59	5.6
5 U	9 26.2	14 23 15	+67.81	132.35	−16 47.8	−13.6			
O	21 50.9	14 50 1	+68.58	135.42	−19 24.1	−12.4			
6 U	10 16.2	15 17 24	+69.39	138.64	−21 44.3	−10.9			
O	22 42.2	15 45 26	+70.18	141.74	−23 46.2	− 9.3			
7 U	11 8.8	16 14 3	+70.86	144.46	−25 27.9	− 7.6			
O	23 35.9	16 43 9	+71.37	146.51	−26 47.5	− 5.7			
8 U	12 3.2	17 12 34	−71.67	147.62	−27 43.9	− 3.7			
—	—	—	—	—	—	—			

Nov. 28 0h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
	h m s	m s	° ′ ″	° ′ ″			′ ″
Dez. 8.0	16 44 5.40	28 21.12	−26 49 39.7	−0 54 1.8	8.21235	−194	15 16.6
8.5	17 12 26.52	28 28.08	27 43 41.5	0 31 49.0	8.21041	192	15 12.5
9.0	17 40 54.60	28 23.68	28 15 30.5	−0 9 29.7	8.20849	186	15 8.5
9.5	18 9 18.28	28 7.73	28 25 0.2	+0 12 26.6	8.20663	178	15 4.6
10.0	18 37 26.01	27 41.20	28 12 33.6	0 33 32.8	8.20485	167	15 0.9
10.5	19 5 7.21	27 5.92	27 39 0.8	0 53 26.6	8.20318	153	14 57.4
11.0	19 32 13.13	26 24.22	26 45 34.2	1 11 51.2	8.20165	135	14 54.3
11.5	19 58 37.35	25 38.69	25 33 43.0	1 28 36.7	8.20030	115	14 51.5
12.0	20 24 16.04	24 51.94	24 5 6.3	1 43 39.0	8.19915	91	14 49.1
12.5	20 49 7.98	24 6.26	22 21 27.3	+1 56 58.2	8.19824	− 65	14 47.3
13.0	21 13 14.24	23 23.50	−20 24 29.1	2 8 38.8	8.19759	36	14 46.0
13.5	21 36 37.74	22 45.21	18 15 50.3	2 18 47.0	8.19723	− 6	14 45.2
14.0	21 59 22.95	22 12.55	15 57 3.3	2 27 29.4	8.19717	+ 27	14 45.1
14.5	22 21 35.50	21 46.38	13 29 33.9	2 34 52.7	8.19744	61	14 45.7
15.0	22 43 21.88	21 27.33	10 54 41.2	2 41 2.9	8.19805	95	14 46.9
15.5	23 4 49.21	21 15.86	8 13 38.3	2 46 4.0	8.19900	129	14 48.8
16.0	23 26 5.07	21 12.35	5 27 34.3	2 49 58.2	8.20029	163	14 51.5
16.5	23 47 17.42	21 17.18	− 2 37 36.1	2 52 44.7	8.20192	197	14 54.8
17.0	0 8 34.60	21 30.66	+ 0 15 8.6	2 54 20.4	8.20389	227	14 58.9
17.5	0 30 5.26	21 53.11	3 9 29.0	+2 54 39.3	8.20616	+256	15 3.6
18.0	0 51 58.37	22 24.80	+ 6 4 8.3	2 53 31.2	8.20872	281	15 9.0
18.5	1 14 23.17	23 5.86	8 57 39.5	2 50 43.6	8.21153	303	15 14.9
19.0	1 37 29.03	23 56.28	11 48 23.1	2 46 0.5	8.21456	319	15 21.3
19.5	2 1 25.31	24 55.70	14 34 23.6	2 39 2.6	8.21775	329	15 28.0
20.0	2 26 21.01	26 3.23	17 13 26.2	2 29 29.2	8.22104	334	15 35.1
20.5	2 52 24.24	27 17.23	19 42 55.4	2 17 0.0	8.22438	332	15 42.3
21.0	3 19 41.47	28 34.95	21 59 55.4	2 1 16.8	8.22770	322	15 49.5
21.5	3 48 16.42	29 52.58	24 1 12.2	1 42 8.8	8.23092	307	15 56.6
22.0	4 18 9.00	31 5.23	25 43 21.0	1 19 35.8	8.23399	283	16 3.4
22.5	4 49 14.23	32 7.18	27 2 56.8	+0 53 54.6	8.23682	+253	16 9.7
23.0	5 21 21.41	32 52.83	+27 56 51.4	+0 25 39.2	8.23935	216	16 15.4
23.5	5 54 14.24	33 17.68	28 22 30.6	−0 4 18.1	8.24151	176	16 20.2
24.0	6 27 31.92	33 19.42	28 18 12.5	0 34 50.3	8.24327	132	16 24.2
24.5	7 0 51.34	32 58.52	27 43 22.2	1 4 46.1	8.24459	85	16 27.2
25.0	7 33 49.86	32 18.09	26 38 36.1	1 32 58.1	8.24544	+ 38	16 29.2
25.5	8 6 7.95	31 23.13	25 5 38.0	1 58 30.9	8.24582	− 9	16 30.0
26.0	8 37 31.08	30 19.48	23 7 7.1	2 20 46.6	8.24573	53	16 29.8
26.5	9 7 50.56	29 12.75	20 46 20.5	2 39 24.6	8.24520	93	16 28.6
27.0	9 37 3.31	28 7.67	18 6 55.9	2 54 20.1	8.24427	130	16 26.5
27.5	10 5 10.98		15 12 35.8		8.24297		16 23.5

Dez. 8 6h 0.3m Neumond. Dez. 16 9h 0.1m Erst. Viert. Dez. 23 17h 23.7m Vollmond.

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Dekl.	Gr.
Dez. 8	U	12h 3.2m	17h 12m 34s	−71.67s	147.62s	−27° 43.9′	− 3.7′			
—		—	—	—	—	—	—			
9	O	0 30.7	17 42 8	−71.70	147.75	−28 16.4	− 1.7			
	U	12 58.1	18 11 35	−71.46	146.74	−28 24.8	+ 0.3			
10	O	1 25.3	18 40 44	−70.95	144.66	−28 9.7	+ 2.2			
	U	13 51.9	19 9 22	−70.20	141.64	−27 32.0	+ 4.0			
11	O	2 17.8	19 37 20	−69.27	137.94	−26 33.2	+ 5.7			
	U	14 42.9	20 4 30	−68.22	133.80	−25 15.1	+ 7.3			
12	O	3 7.2	20 30 48	−67.11	129.49	−23 39.5	+ 8.6			
	U	15 30.6	20 56 16	−66.00	125.24	−21 48.5	+ 9.8			
13	O	3 53.2	21 20 53	−64.94	121.24	−19 44.0	+10.9	20h 41.1m	−21° 50′	5.8
	U	16 15.0	21 44 45	−63.98	117.67	−17 27.8	+11.8	21 4.6	−20 55	6.1
14	O	4 36.2	22 7 58	−63.15	114.60	−15 1.4	+12.6	21 37.8	−19 16	4.8
	U	16 56.8	22 30 37	−62.48	112.14	−12 26.5	+13.2	21 57.4	−18 20	6.4
15	O	5 17.0	22 52 51	−61.99	110.34	− 9 44.5	+13.8	22 25.4	−13 22	6.2
	U	17 36.9	23 14 47	−61.68	109.25	− 6 56.6	+14.2	22 43.9	−11 1	6.1
16	O	5 56.7	23 36 35	−61.60	108.90	− 4 3.8	+14.6	23 9.8	− 6 31	4.6
	U	18 16.5	23 58 24	−61.72	109.34	− 1 7.6	+14.8	23 25.0	− 5 1	6.4
17	O	6 36.5	0 20 23	−62.08	110.57	+ 1 51.0	+14.9	23 48.5	− 3 39	6.1
	U	18 56.8	0 42 42	−62.66	112.64	+ 4 50.6	+15.0	0 3.7	− 2 56	6.3
18	O	7 17.5	1 5 31	−63.48	115.59	+ 7 49.8	+14.9	0 43.8	+ 4 50	5.9
	U	19 39.0	1 29 1	−64.54	119.43	+10 46.9	+14.6	0 55.3	+ 6 1	6.3
19	O	8 1.4	1 53 24	−65.82	124.15	+13 40.0	+14.2	1 23.8	+ 7 30	6.4
	U	20 24.7	2 18 47	−67.31	129.75	+16 26.8	+13.6	1 46.3	+10 36	6.0
20	O	8 49.3	2 45 23	−68.97	136.15	+19 4.4	+12.7	2 8.3	+14 52	5.8
	U	21 15.2	3 13 19	−70.74	143.18	+21 29.8	+11.5	2 26.1	+17 19	6.4
21	O	9 42.5	3 42 43	−72.55	150.50	+23 39.4	+10.0	3 6.7	+19 24	4.6
	U	22 11.3	4 13 34	−74.32	157.69	+25 29.3	+ 8.2	3 23.4	+22 30	6.1
22	O	10 41.5	4 45 48	−75.90	164.29	+26 55.5	+ 6.1	4 5.5	+26 15	5.5
	U	23 12.9	5 19 14	−77.15	169.63	+27 54.2	+ 3.7	4 18.8	+24 6	6.1
23	O	11 45.1	5 53 33	−77.97	173.17	+28 22.3	+ 1.0	5 15.5	+27 52	6.4
—		—	—	—	—	—	—	5 30.5	+27 36	6.5
24	U	0 17.8	6 28 22	+78.27	174.48	+28 17.7	− 1.8	6 29.7	+28 6	5.1
	O	12 50.6	7 3 11	+78.03	173.39	+27 39.8	− 4.5	6 39.3	+29 4	5.5
25	U	1 23.0	7 37 35	+77.30	170.18	+26 29.3	− 7.2	7 30.6	+27 6	4.3
	O	13 54.5	8 11 11	+76.18	165.35	+24 48.4	− 9.6	7 48.2	+27 0	4.9
26	U	2 25.0	8 43 43	+74.79	159.49	+22 40.4	−11.7	8 38.3	+21 47	4.8
	O	14 54.2	9 15 1	+73.28	153.22	+20 9.3	−13.4	9 2.5	+23 20	6.3
27	U	3 22.3	9 45 4	+71.77	147.03	+17 19.3	−14.8	9 39.7	+19 16	6.5
	O	15 49.1	10 13 55	+70.34	141.34	+14 14.6	−15.9	10 1.0	+16 11	6.3

Dez. 13 20h Apogäum. Dez. 25 16h Perigäum.

Mittlerer Mittag und Mitternacht.

Datum	Wahre AR.	Diff.	Wahre Dekl.	Diff.	Log. sin. A. H. Par.	Diff.	Halbm.
Dez. 27.0	9h 37m 3.31s		+18° 6′ 55.9″		8.24427		16′ 26.5″
		28m 7.67s		−2° 54′ 20.1″		−130	
27.5	10 5 10.98		15 12 35.8		8.24297		16 23.5
		27 7.85		3 5 38.9		162	
28.0	10 32 18.83		12 6 56.9		8.24135		16 19.9
		26 15.69		3 13 34.2		187	
28.5	10 58 34.52		8 53 22.7		8.23948		16 15.7
		25 32.67		3 18 22.6		208	
29.0	11 24 7.19		5 35 0.1		8.23740		16 11.0
		24 59.54		3 20 21.6		222	
29.5	11 49 6.73		+ 2 14 38.5		8.23518		16 6.1
		24 36.53		3 19 46.9		233	
30.0	12 13 43.26		− 1 5 8.4		8.23285		16 0.9
		24 23.48		3 16 51.8		239	
30.5	12 38 6.74		4 22 0.2		8.23046		15 55.6
		24 19.97		3 11 47.2		241	
31.0	13 2 26.71		7 33 47.4		8.22805		15 50.3
		24 25.41		3 4 41.0		239	
31.5	13 26 52.12		10 38 28.4		8.22566		15 45.1
		24 38.93		−2 55 38.3		−235	
32.0	13 51 31.05		−13 34 6.7		8.22331		15 40.0

Dez. 30 9h 5.5m Letztes Viertel.

Phasen des Mondes.

Monat	Tag	h m	Phase
Jan.	4	2 23.3	Vollmond
	10	20 36.5	Letztes Viertel
	19	0 3.6	Neumond
	26	21 45.0	Erstes Viertel
Febr.	2	12 51.7	Vollmond
	9	13 44.4	Letztes Viertel
	17	18 37.7	Neumond
	25	8 20.3	Erstes Viertel
März	2	23 35.5	Vollmond
	10	8 49.2	Letztes Viertel
	18	11 2.3	Neumond
	25	15 55.5	Erstes Viertel
April	1	10 58.2	Vollmond
	9	4 17.4	Letztes Viertel
	17	0 33.8	Neumond
	23	21 40.8	Erstes Viertel
	30	23 13.0	Vollmond
Mai	8	22 49.7	Letztes Viertel
	16	11 7.2	Neumond
	23	3 4.9	Erstes Viertel
	30	12 23.2	Vollmond
Juni	7	15 29.2	Letztes Viertel
	14	19 17.2	Neumond
	21	9 32.5	Erstes Viertel
	29	2 27.4	Vollmond
Juli	7	5 40.5	Letztes Viertel
	14	2 6.8	Neumond
	20	18 12.0	Erstes Viertel
	28	17 21.8	Vollmond
Aug.	5	17 11.2	Letztes Viertel
	12	8 51.2	Neumond
	19	5 50.2	Erstes Viertel
	27	8 52.5	Vollmond
Sept.	4	2 16.7	Letztes Viertel
	10	16 42.1	Neumond
	17	20 48.3	Erstes Viertel
	26	0 27.8	Vollmond
Okt.	3	9 41.7	Letztes Viertel
	10	2 34.2	Neumond
	17	14 59.8	Erstes Viertel
	25	15 24.1	Vollmond
Nov.	1	16 31.2	Letztes Viertel
	8	14 58.4	Neumond
	16	11 36.9	Erstes Viertel
	24	5 5.8	Vollmond
	30	23 58.4	Letztes Viertel
Dez.	8	6 0.3	Neumond
	16	9 0.1	Erstes Viertel
	23	17 23.7	Vollmond
	30	9 5.5	Letztes Viertel

Im Meridian von Berlin.

Datum und Kulmination		Mittlere Zeit	AR.	Halbe Durchg.-D. Sternzeit	Bew. in 1h Länge	Dekl.	Bew. in 1h Länge	Vergl.-Sterne AR.	Dekl.	Gr.
		h m	h m s	s	s	° ′	′	h m	° ′	
Dez. 27	U	3 22.3	9 45 4	+71.77	147.03	+17 19.3	−14.8	9 39.7	+19 16	6.5
	O	15 49.1	10 13 55	+70.34	141.34	+14 14.6	−15.9	10 1.0	+16 11	6.3
28	U	4 14.8	10 41 42	+69.08	136.38	+10 59.2	−16.6	10 44.7	+11 1	5.3
	O	16 39.6	11 8 34	+68.03	132.30	+ 7 36.7	−17.1	10 55.0	+10 24	7.0
29	U	5 3.7	11 34 43	+67.20	129.18	+ 4 10.6	−17.3	11 29.9	+ 3 33	5.7
	O	17 27.3	12 0 20	+66.63	127.04	+ 0 43.6	−17.2	11 46.2	+ 2 16	3.8
30	U	5 50.6	12 25 37	+66.30	125.83	− 2 41.5	−17.0	12 15.5	− 0 11	4.0
	O	18 13.7	12 50 44	+66.22	125.54	− 6 2.3	−16.5	12 37.2	− 0 58	2.9
31	U	6 36.8	13 15 53	+66.35	126.09	− 9 16.6	−15.8	13 4.0	− 8 31	5.6
	O	19 0.1	13 41 13	+66.68	127.39	−12 22.2	−15.0	13 28.4	− 9 43	5.4

Mond im Perigäum

		h
Jan.	4	3
Febr.	1	15
Febr.	29	22
März	28	10
April	22	11
Mai	19	5
Juni	16	5
Juli	14	13
Aug.	11	22
Sept.	9	7
Okt.	7	8
Nov.	3	0
Nov.	28	0
Dez.	25	16

Mond im Apogäum

		h
Jan.	17	15
Febr.	14	0
März	12	18
April	9	14
Mai	7	9
Juni	4	2
Juli	1	13
Juli	28	18
Aug.	24	21
Sept.	21	9
Okt.	19	3
Nov.	15	23
Dez.	13	20

Mittlere Mitternacht Berlin.

Datum		$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
		s	s	s	″	″	″			
Jan.	0	+ 1.45	−1.13	−0.94	+ 20.6	−30.5	− 0.3	8.24072	+624	− 86
	1	+ 0.32	−2.24	−1.11	− 9.9	−24.6	+ 5.9	8.24696	+476	−148
	2	− 1.92	−3.11	−0.87	− 34.5	−11.6	+13.0	8.25172	+269	−207
	3	− 5.03	−3.35	−0.24	− 46.1	+ 5.4	+17.0	8.25441	+ 24	−245
	4	− 8.38	−2.68	+0.67	− 40.7	+20.4	+15.0	8.25465	−221	−245
	5	−11.06	−1.66	+1.02	− 20.3	+28.7	+ 8.3	8.25244	−438	−217
	6	−12.72	−0.71	+0.95	+ 8.4	+30.3	+ 1.6	8.24806	−601	−163
	7	−13.43	−0.01	+0.70	+ 38.7	+27.3	− 3.0	8.24205	−696	− 95
	8	−13.44	+0.40	+0.41	+ 66.0	+22.3	− 5.0	8.23509	−727	− 31
	9	−13.04	+0.63	+0.23	+ 88.3	+16.9	− 5.4	8.22782	−701	+ 26
	10	−12.41	+0.75	+0.12	+105.2	+12.3	− 4.6	8.22081	−635	+ 66
	11	−11.66	+0.77	+0.02	+117.5	+ 8.6	− 3.7	8.21446	−543	+ 92
	12	−10.89			+126.1			8.20903		
Jan.	27	+ 1.99	−0.15	−0.67	+ 27.2	−27.6	− 2.2	8.23075	+631	+ 7
	28	+ 1.84	−1.09	−0.94	− 0.4	−25.9	+ 1.7	8.23706	+593	− 38
	29	+ 0.75	−2.15	−1.06	− 26.3	−18.5	+ 7.4	8.24299	+496	− 97
	30	− 1.40	−2.89	−0.74	− 44.8	− 5.2	+13.3	8.24795	+343	−153
	31	− 4.29	−2.97	−0.08	− 50.0	+10.7	+15.9	8.25138	+141	−202
Febr.	1	− 7.26	−2.38	+0.59	− 39.3	+24.1	+13.4	8.25279	− 88	−229
	2	− 9.64	−1.55	+0.83	− 15.2	+31.4	+ 7.3	8.25191	−313	−225
	3	−11.19	−0.78	+0.77	+ 16.2	+32.6	+ 1.2	8.24878	−505	−192
	4	−11.97	−0.23	+0.55	+ 48.8	+29.2	− 3.4	8.24373	−645	−140
	5	−12.20	+0.12	+0.35	+ 78.0	+23.6	− 5.6	8.23728	−718	− 73
	6	−12.08	+0.33	+0.21	+101.6	+17.5	− 6.1	8.23010	−728	− 10
	7	−11.75	+0.43	+0.10	+119.1	+11.8	− 5.7	8.22282	−683	+ 45
	8	−11.32	+0.49	+0.06	+130.9	+ 7.1	− 4.7	8.21599	−599	+ 84
	9	−10.83	+0.51	+0.02	+138.0	+ 3.6	− 3.5	8.21000	−487	+112
	10	−10.32		0.00	+141.6		− 2.6	8.20513		+125
Febr.	25	+ 0.71	−1.24	−0.83	− 24.4	−18.9	+ 4.8	8.23454	+442	− 23
	26	− 0.53	−1.98	−0.74	− 43.3	− 9.6	+ 9.3	8.23896	+385	− 57
	27	− 2.51	−2.33	−0.35	− 52.9	+ 3.1	+12.7	8.24281	+287	− 98
	28	− 4.84	−2.17	+0.16	− 49.8	+16.1	+13.0	8.24568	+152	−135
	29	− 7.01	−1.66	+0.51	− 33.7	+26.1	+10.0	8.24720	− 17	−169
März	1	− 8.67	−1.07	+0.59	− 7.6	+31.5	+ 5.4	8.24703	−198	−181
	2	− 9.74	−0.58	+0.49	+ 23.9	+32.1	+ 0.6	8.24505	−374	−176
	3	−10.32	−0.25	+0.33	+ 56.0	+29.1	− 3.0	8.24131	−517	−143
	4	−10.57	−0.04	+0.21	+ 85.1	+23.9	− 5.2	8.23614	−615	− 98
	5	−10.61	+0.07	+0.11	+109.0	+17.8	− 6.1	8.22999	−659	− 44
	6	−10.54	+0.14	+0.07	+126.8	+11.7	− 6.1	8.22340	−647	+ 12
	7	−10.40	+0.18	+0.04	+138.5	+ 6.5	− 5.2	8.21693	−588	+ 59
	8	−10.22	+0.25	+0.07	+145.0	+ 2.3	− 4.2	8.21105	−493	+ 95
	9	− 9.97	+0.32	+0.07	+147.3	− 0.7	− 3.0	8.20612	−372	+121
	10	− 9.65		+0.13	+146.6		− 1.9	8.20240		+135

Mittlere Mitternacht Berlin.

Datum	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
März 25	− 3.19 s	−1.79 s		− 53.0″	+ 1.1″		8.23741	+185	
26	− 4.98	−1.66	+0.13 s	− 51.9	+12.0	+10.9″	8.23926	+122	− 63
27	− 6.64	−1.25	+0.41	− 39.9	+21.0	+ 9.0	8.24048	+ 39	− 83
28	− 7.89	−0.79	+0.46	− 18.9	+26.9	+ 5.9	8.24087	− 64	−103
29	− 8.68	−0.42	+0.37	+ 8.0	+29.6	+ 2.7	8.24023	−178	−114
30	− 9.10	−0.18	+0.24	+ 37.6	+29.2	− 0.4	8.23845	−297	−119
31	− 9.28	−0.04	+0.14	+ 66.8	+26.4	− 2.8	8.23548	−404	−107
April 1	− 9.32	0.00	+0.04	+ 93.2	+21.9	− 4.5	8.23144	−488	− 84
2	− 9.32	−0.01	−0.01	+115.1	+16.5	− 5.4	8.22656	−539	− 51
3	− 9.33	−0.03	−0.02	+131.6	+10.8	− 5.7	8.22117	−546	− 7
4	− 9.36	−0.02	+0.01	+142.4	+ 5.6	− 5.2	8.21571	−514	+ 32
5	− 9.38	+0.06	+0.08	+148.0	+ 1.3	− 4.3	8.21057	−443	+ 71
6	− 9.32	+0.22	+0.16	+149.3	− 1.9	− 3.2	8.20614	−340	+103
7	− 9.10	+0.44	+0.22	+147.4	− 3.9	− 2.0	8.20274	−218	+122
8	− 8.66	+0.67	+0.23	+143.5	− 5.0	− 1.1	8.20056	− 80	+138
9	− 7.99	+0.89	+0.22	+138.5	− 5.5	− 0.5	8.19976	+ 61	+141
10	− 7.10			+133.0			8.20037		
April 23	− 7.81	−1.05		− 38.9	+19.9		8.23880	− 96	
24	− 8.86	−0.50	+0.55	− 19.0	+24.8	+ 4.9	8.23784	−151	− 55
25	− 9.36	−0.11	+0.39	+ 5.8	+26.8	+ 2.0	8.23633	−204	− 53
26	− 9.47	+0.13	+0.24	+ 32.6	+26.6	− 0.2	8.23429	−258	− 54
27	− 9.34	+0.23	+0.10	+ 59.2	+24.9	− 1.7	8.23171	−311	− 53
28	− 9.11	+0.22	−0.01	+ 84.1	+21.8	− 3.1	8.22860	−364	− 53
29	− 8.89	+0.14	−0.08	+105.9	+17.8	− 4.0	8.22496	−405	− 41
30	− 8.75	+0.04	−0.10	+123.7	+13.0	− 4.8	8.22091	−431	− 26
Mai 1	− 8.71	−0.05	−0.09	+136.7	+ 8.4	− 4.6	8.21660	−434	− 3
2	− 8.76	−0.06	−0.01	+145.1	+ 3.5	− 4.9	8.21226	−410	+ 24
3	− 8.82	+0.03	+0.09	+148.6	− 0.4	− 3.9	8.20816	−357	+ 53
4	− 8.79	+0.25	+0.22	+148.2	− 3.2	− 2.8	8.20459	−276	+ 81
5	− 8.54	+0.53	+0.28	+145.0	− 4.9	− 1.7	8.20183	−172	+104
6	− 8.01	+0.82	+0.29	+140.1	− 5.6	− 0.7	8.20011	− 48	+124
7	− 7.19	+1.04	+0.22	+134.5	− 6.1	− 0.5	8.19963	+ 87	+135
8	− 6.15	+1.19	+0.15	+128.4	− 7.0	− 0.9	8.20050	+224	+137
9	− 4.96			+121.4			8.20274		
Mai 23	−10.76	+0.25		+ 36.5	+26.0		8.23467	−385	
24	−10.51	+0.42	+0.17	+ 62.5	+23.5	− 2.5	8.23082	−397	− 12
25	−10.09	+0.44	+0.02	+ 86.0	+20.1	− 3.4	8.22685	−398	− 1
26	− 9.65	+0.37	−0.07	+106.1	+16.4	− 3.7	8.22287	−396	+ 2
27	− 9.28	+0.25	−0.12	+122.5	+12.6	− 3.8	8.21891	−386	+ 10
28	− 9.03	+0.11	−0.14	+135.1	+ 8.3	− 4.3	8.21505	−373	+ 13
29	− 8.92	+0.02	−0.09	+143.4	+ 4.1	− 4.2	8.21132	−349	+ 24
30	− 8.90	+0.03	+0.01	+147.5	+ 0.2	− 3.9	8.20783	−315	+ 34
31	− 8.87		+0.12	+147.7		− 3.2	8.20468		+ 50

Mittlere Mitternacht Berlin.

Datum		$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
Mai	31	− 8.87	+0.15	+0.12	+147.7	− 3.0	−3.2	8.20468	−265	+ 50
Juni	1	− 8.72	+0.42	+0.27	+144.7	− 5.1	−2.1	8.20203	−198	+ 67
	2	− 8.30	+0.73	+0.31	+139.6	− 6.1	−1.0	8.20005	−111	+ 87
	3	− 7.57	+1.03	+0.30	+133.5	− 6.5	−0.4	8.19894	− 7	+104
	4	− 6.54	+1.23	+0.20	+127.0	− 6.8	−0.3	8.19887	+112	+119
	5	− 5.31	+1.36	+0.13	+120.2	− 7.6	−0.8	8.19999	+240	+128
	6	− 3.95	+1.39	+0.03	+112.6	− 9.3	−1.7	8.20239	+368	+128
	7	− 2.56	+1.35	−0.04	+103.3	−12.2	−2.9	8.20607	+489	+121
	8	− 1.21			+ 91.1			8.21096		
Juni	21	−11.36	+0.41		+ 92.4	+20.5		8.23010	−547	
	22	−10.95	+0.42	+0.01	+112.9	+15.8	−4.7	8.22463	−517	+ 30
	23	−10.53	+0.35	−0.07	+128.7	+11.2	−4.6	8.21946	−470	+ 47
	24	−10.18	+0.23	−0.12	+139.9	+ 6.9	−4.3	8.21476	−418	+ 52
	25	− 9.95	+0.13	−0.10	+146.8	+ 2.8	−4.1	8.21058	−363	+ 55
	26	− 9.82	+0.11	−0.02	+149.6	− 0.8	−3.6	8.20695	−305	+ 58
	27	− 9.71	+0.19	+0.08	+148.8	− 4.0	−3.2	8.20390	−249	+ 56
	28	− 9.52	+0.40	+0.21	+144.8	− 6.0	−2.0	8.20141	−187	+ 62
	29	− 9.12	+0.70	+0.30	+138.8	− 7.3	−1.3	8.19954	−122	+ 65
	30	− 8.42	+0.99	+0.29	+131.5	− 7.7	−0.4	8.19832	− 45	+ 77
Juli	1	− 7.43	+1.25	+0.26	+123.8	− 7.7	0.0	8.19787	+ 41	+ 86
	2	− 6.18	+1.41	+0.16	+116.1	− 8.0	−0.3	8.19828	+138	+ 97
	3	− 4.77	+1.51	+0.10	+108.1	− 8.8	−0.8	8.19966	+245	+107
	4	− 3.26	+1.52	+0.01	+ 99.3	−10.5	−1.7	8.20211	+360	+115
	5	− 1.74	+1.47	−0.05	+ 88.8	−13.2	−2.7	8.20571	+471	+111
	6	− 0.27	+1.31	−0.16	+ 75.6	−16.6	−3.4	8.21042	+578	+107
	7	+ 1.04			+ 59.0			8.21620		
Juli	21	−11.38	+0.15		+147.7	+ 6.4		8.21846	−556	
	22	−11.23	+0.11	−0.04	+154.1	+ 1.6	−4.8	8.21290	−472	+ 84
	23	−11.12	+0.11	0.00	+155.7	− 2.5	−4.1	8.20818	−383	+ 89
	24	−11.01	+0.22	+0.11	+153.2	− 5.6	−3.1	8.20435	−292	+ 91
	25	−10.79	+0.42	+0.20	+147.6	− 7.8	−2.2	8.20143	−208	+ 84
	26	−10.37	+0.71	+0.29	+139.8	− 9.0	−1.2	8.19935	−127	+ 81
	27	− 9.66	+0.98	+0.27	+130.8	− 9.3	−0.3	8.19808	− 53	+ 74
	28	− 8.68	+1.24	+0.26	+121.5	− 9.3	0.0	8.19755	+ 20	+ 73
	29	− 7.44	+1.42	+0.18	+112.2	− 9.4	−0.1	8.19775	+ 93	+ 73
	30	− 6.02	+1.53	+0.11	+102.8	− 9.7	−0.3	8.19868	+170	+ 77
	31	− 4.49	+1.58	+0.05	+ 93.1	−10.7	−1.0	8.20038	+252	+ 82
Aug.	1	− 2.91	+1.56	−0.02	+ 82.4	−12.4	−1.7	8.20290	+341	+ 89
	2	− 1.35	+1.50	−0.06	+ 70.0	−14.8	−2.4	8.20631	+430	+ 89
	3	+ 0.15	+1.32	−0.18	+ 55.2	−17.8	−3.0	8.21061	+518	+ 88
	4	+ 1.47	+1.01	−0.31	+ 37.4	−20.9	−3.1	8.21579	+595	+ 77
	5	+ 2.48	+0.46	−0.55	+ 16.5	−23.2	−2.3	8.22174	+652	+ 57
	6	+ 2.94			− 6.7			8.22826		

Mittlere Mitternacht Berlin.

Datum	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
Aug. 19	−12.00	−0.08		+162.8	− 2.9		8.21290	−521	
20	−12.08	+0.09	+0.17	+159.9	− 6.9	− 4.0	8.20769	−412	+109
21	−11.99	+0.36	+0.27	+153.0	− 9.5	− 2.6	8.20357	−297	+115
22	−11.63	+0.67	+0.31	+143.5	−10.7	− 1.2	8.20060	−183	+114
23	−10.96	+0.98	+0.31	+132.8	−11.0	− 0.3	8.19877	− 82	+101
24	− 9.98	+1.24	+0.26	+121.8	−10.8	+ 0.2	8.19795	+ 10	+ 92
25	− 8.74	+1.41	+0.17	+111.0	−10.7	+ 0.1	8.19805	+ 89	+ 79
26	− 7.33	+1.51	+0.10	+100.3	−11.0	− 0.3	8.19894	+157	+ 68
27	− 5.82	+1.55	+0.04	+ 89.3	−11.8	− 0.8	8.20051	+220	+ 63
28	− 4.27	+1.53	−0.02	+ 77.5	−13.2	− 1.4	8.20271	+275	+ 55
29	− 2.74	+1.48	−0.05	+ 64.3	−14.9	− 1.7	8.20546	+333	+ 58
30	− 1.26	+1.36	−0.12	+ 49.4	−17.0	− 2.1	8.20879	+386	+ 53
31	+ 0.10	+1.14	−0.22	+ 32.4	−19.2	− 2.2	8.21265	+441	+ 55
Sept. 1	+ 1.24	+0.75	−0.39	+ 13.2	−20.7	− 1.5	8.21706	+493	+ 52
2	+ 1.99	+0.16	−0.59	− 7.5	−20.8	− 0.1	8.22199	+532	+ 39
3	+ 2.15	−0.63	−0.79	− 28.3	−18.1	+ 2.7	8.22731	+554	+ 22
4	+ 1.52			− 46.4			8.23285		
Sept. 18	−12.36	+0.51		+149.2	−12.0		8.20392	−300	
19	−11.85	+0.91	+0.40	+137.2	−12.3	− 0.3	8.20092	−169	+131
20	−10.94	+1.22	+0.31	+124.9	−11.9	+ 0.4	8.19923	− 44	+125
21	− 9.72	+1.40	+0.18	+113.0	−11.5	+ 0.4	8.19879	+ 67	+111
22	− 8.32	+1.50	+0.10	+101.5	−11.7	− 0.2	8.19946	+162	+ 95
23	− 6.82	+1.52	+0.02	+ 89.8	−12.4	− 0.7	8.20108	+239	+ 77
24	− 5.30	+1.47	−0.05	+ 77.4	−13.9	− 1.5	8.20347	+294	+ 55
25	− 3.83	+1.39	−0.08	+ 63.5	−15.7	− 1.8	8.20641	+333	+ 39
26	− 2.44	+1.25	−0.14	+ 47.8	−17.7	− 2.0	8.20974	+359	+ 26
27	− 1.19	+1.02	−0.23	+ 30.1	−19.3	− 1.6	8.21333	+374	+ 15
28	− 0.17	+0.68	−0.34	+ 10.8	−20.4	− 1.1	8.21707	+381	+ 7
29	+ 0.51	+0.21	−0.47	− 9.6	−19.7	+ 0.7	8.22088	+389	+ 8
30	+ 0.72	−0.41	−0.62	− 29.3	−16.8	+ 2.9	8.22477	+389	0
Okt. 1	+ 0.31	−1.04	−0.63	− 46.1	−10.7	+ 6.1	8.22866	+385	− 4
2	− 0.73	−1.50	−0.46	− 56.8	− 1.7	+ 9.0	8.23251	+366	− 19
3	− 2.23	−1.63	−0.13	− 58.5	+ 9.0	+10.7	8.23617	+330	− 36
4	− 3.86			− 49.5			8.23947		
Okt. 17	−11.31	+1.10		+129.6	−12.8		8.20141	−155	
18	−10.21	+1.39	+0.29	+116.8	−12.0	+ 0.8	8.19986	− 16	+139
19	− 8.82	+1.52	+0.13	+104.8	−11.5	+ 0.5	8.19970	+116	+132
20	− 7.30	+1.55	+0.03	+ 93.3	−12.0	− 0.5	8.20086	+233	+117
21	− 5.75	+1.50	−0.05	+ 81.3	−13.3	− 1.3	8.20319	+325	+ 92
22	− 4.25	+1.37	−0.13	+ 68.0	−15.3	− 2.0	8.20644	+393	+ 68
23	− 2.88	+1.19	−0.18	+ 52.7	−17.8	− 2.5	8.21037	+430	+ 37
24	− 1.69	+0.93	−0.26	+ 34.9	−20.1	− 2.3	8.21467	+438	+ 8
25	− 0.76		−0.39	+ 14.8		− 1.3	8.21905		− 19

Mittlere Mitternacht Berlin.

Datum	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
	s	s	s	"	"	"			
Okt. 25	−0.76	+0.54	−0.39	+ 14.8	−21.4	− 1.3	8.21905	+419	− 19
26	−0.22	+0.02	−0.52	− 6.6	−20.8	+ 0.6	8.22324	+381	− 38
27	−0.20	−0.60	−0.62	− 27.4	−17.3	+ 3.5	8.22705	+331	− 50
28	−0.80	−1.17	−0.57	− 44.7	−10.7	+ 6.6	8.23036	+272	− 59
29	−1.97	−1.53	−0.36	− 55.4	− 1.2	+ 9.5	8.23308	+218	− 54
30	−3.50	−1.51	+0.02	− 56.6	+ 9.1	+10.3	8.23526	+164	− 54
31	−5.01	−1.18	+0.33	− 47.5	+18.3	+ 9.2	8.23690	+111	− 53
Nov. 1	−6.19	−0.76	+0.42	− 29.2	+25.1	+ 6.8	8.23801	+ 59	− 52
2	−6.95			− 4.1			8.23860		
Nov. 16	−7.48	+1.63		+ 96.3	−11.1		8.19993	+147	
17	−5.85	+1.62	−0.01	+ 85.2	−11.8	− 0.7	8.20140	+279	+132
18	−4.23	+1.52	−0.10	+ 73.4	−13.4	− 1.6	8.20419	+397	+118
19	−2.71	+1.34	−0.18	+ 60.0	−15.9	− 2.5	8.20816	+487	+ 90
20	−1.37	+1.07	−0.27	+ 44.1	−18.9	− 3.0	8.21303	+544	+ 57
21	−0.30	+0.64	−0.43	+ 25.2	−21.5	− 2.6	8.21847	+558	+ 14
22	+0.34	+0.06	−0.58	+ 3.7	−22.4	− 0.9	8.22405	+528	− 30
23	+0.40	−0.69	−0.75	− 18.7	−20.2	+ 2.2	8.22933	+459	− 69
24	−0.29	−1.46	−0.77	− 38.9	−13.6	+ 6.6	8.23392	+358	−101
25	−1.75	−1.97	−0.51	− 52.5	− 3.2	+10.4	8.23750	+238	−120
26	−3.72	−1.99	−0.02	− 55.7	+ 9.0	+12.2	8.23988	+115	−123
27	−5.71	−1.55	+0.44	− 46.7	+19.6	+10.6	8.24103	− 2	−117
28	−7.26	−0.94	+0.61	− 27.1	+26.7	+ 7.1	8.24101	− 98	− 96
29	−8.20	−0.39	+0.55	− 0.4	+29.9	+ 3.2	8.24003	−171	− 73
30	−8.59	−0.05	+0.34	+ 29.5	+30.1	+ 0.2	8.23832	−226	− 55
Dez. 1	−8.64	+0.11	+0.16	+ 59.6	+28.5	− 1.6	8.23606	−265	− 39
2	−8.53			+ 88.1			8.23341		
Dez. 15	−4.34	+1.71		+ 75.0	−11.5		8.20087	+294	
16	−2.63	+1.61	−0.10	+ 63.5	−13.2	− 1.7	8.20381	+425	+131
17	−1.02	+1.40	−0.21	+ 50.3	−15.8	− 2.6	8.20806	+540	+115
18	+0.38	+1.05	−0.35	+ 34.5	−18.9	− 3.1	8.21346	+625	+ 85
19	+1.43	+0.55	−0.50	+ 15.6	−21.5	− 2.6	8.21971	+666	+ 41
20	+1.98	−0.23	−0.78	− 5.9	−22.0	− 0.5	8.22637	+657	− 9
21	+1.75	−1.21	−0.98	− 27.9	−18.5	+ 3.5	8.23294	+593	− 64
22	+0.54	−2.10	−0.89	− 46.4	− 9.4	+ 9.1	8.23887	+471	−122
23	−1.56	−2.56	−0.46	− 55.8	+ 4.1	+13.5	8.24358	+309	−162
24	−4.12	−2.36	+0.20	− 51.7	+18.1	+14.0	8.24667	+123	−186
25	−6.48	−1.72	+0.64	− 33.6	+28.7	+10.6	8.24790	− 63	−186
26	−8.20	−0.98	+0.74	− 4.9	+33.8	+ 5.1	8.24727	−224	−161
27	−9.18	−0.43	+0.55	+ 28.9	+34.2	+ 0.4	8.24503	−351	−127
28	−9.61	−0.10	+0.33	+ 63.1	+31.2	− 3.0	8.24152	−433	− 82
29	−9.71	+0.03	+0.13	+ 94.3	+26.4	− 4.8	8.23719	−475	− 42
30	−9.68	0.00	−0.03	+120.7	+20.6	− 5.8	8.23244	−483	− 8
31	−9.68			+141.3			8.22761		

12h Mittl. Zeit	Lage gegen den Erdäquator.							
	i		Δ		☊'		Δ − ☋	
Jan. −8	22° 6.15'	0.41	209° 16.33'	33.58	358° 6.84'	1.98	1° 44.34'	1.82
2	22 5.74	0.40	208 42.75	33.60	358 8.82	1.99	1 42.52	1.83
12	22 5.34	0.40	208 9.15	33.61	358 10.81	2.00	1 40.69	1.84
22	22 4.94	0.39	207 35.54	33.62	358 12.81	2.01	1 38.85	1.85
Febr. 1	22 4.55	0.38	207 1.92	33.63	358 14.82	2.02	1 37.00	1.87
11	22 4.17	0.37	206 28.29	33.64	358 16.84	2.03	1 35.13	1.88
21	22 3.80	0.37	205 54.65	33.66	358 18.87	2.05	1 33.25	1.88
März 2	22 3.43	0.36	205 20.99	33.67	358 20.92	2.06	1 31.37	1.89
12	22 3.07	0.35	204 47.32	33.68	358 22.98	2.06	1 29.48	1.90
22	22 2.72	0.34	204 13.64	33.69	358 25.04	2.07	1 27.58	1.91
April 1	22 2.38	0.34	203 39.95	33.69	358 27.11	2.08	1 25.67	1.92
11	22 2.04	0.33	203 6.26	33.70	358 29.19	2.09	1 23.75	1.93
21	22 1.71	0.33	202 32.56	33.71	358 31.28	2.10	1 21.82	1.93
Mai 1	22 1.38	0.32	201 58.85	33.71	358 33.38	2.11	1 19.89	1.94
11	22 1.06	0.31	201 25.14	33.72	358 35.49	2.12	1 17.95	1.95
21	22 0.75	0.30	200 51.42	33.73	358 37.61	2.13	1 16.00	1.96
31	22 0.45	0.29	200 17.69	33.73	358 39.74	2.13	1 14.04	1.97
Juni 10	22 0.16	0.28	199 43.96	33.74	358 41.87	2.14	1 12.07	1.98
20	21 59.88	0.28	199 10.22	33.74	358 44.01	2.15	1 10.09	1.98
30	21 59.60	0.27	198 36.48	33.76	358 46.16	2.16	1 8.11	1.99
Juli 10	21 59.33	0.25	198 2.72	33.76	358 48.32	2.16	1 6.12	2.00
20	21 59.08	0.25	197 28.96	33.77	358 50.48	2.17	1 4.12	2.00
30	21 58.83	0.24	196 55.19	33.78	358 52.65	2.18	1 2.12	2.01
Aug. 9	21 58.59	0.23	196 21.41	33.79	358 54.83	2.19	1 0.11	2.01
19	21 58.36	0.23	195 47.62	33.79	358 57.02	2.20	0 58.10	2.02
29	21 58.13	0.22	195 13.83	33.80	358 59.22	2.20	0 56.08	2.03
Sept. 8	21 57.91	0.21	194 40.03	33.81	359 1.42	2.20	0 54.05	2.03
18	21 57.70	0.20	194 6.22	33.81	359 3.62	2.21	0 52.02	2.04
28	21 57.50	0.20	193 32.41	33.82	359 5.83	2.21	0 49.98	2.04
Okt. 8	21 57.30	0.19	192 58.59	33.82	359 8.04	2.22	0 47.94	2.05
18	21 57.11	0.18	192 24.77	33.83	359 10.26	2.23	0 45.89	2.05
28	21 56.93	0.17	191 50.94	33.83	359 12.49	2.23	0 43.84	2.06
Nov. 7	21 56.76	0.16	191 17.11	33.83	359 14.72	2.24	0 41.78	2.06
17	21 56.60	0.16	190 43.28	33.83	359 16.96	2.24	0 39.72	2.07
27	21 56.44	0.15	190 9.45	33.84	359 19.20	2.24	0 37.65	2.07
Dez. 7	21 56.29	0.14	189 35.61	33.84	359 21.44	2.25	0 35.58	2.07
17	21 56.15	0.13	189 1.77	33.84	359 23.69	2.25	0 33.51	2.08
27	21 56.02	0.12	188 27.93	33.84	359 25.94	2.25	0 31.43	2.08
37	21 55.90		187 54.09		359 28.19		0 29.35	

12h Mittl. Zeit	Aufst. Knoten der Mondbahn ° ′ ″	Mittlere Länge des Mondes ° ′ ″
Jan. −8	27 32 7.2	310 6 15.5
2	27 0 20.8	81 52 5.8
12	26 28 34.5	213 37 56.1
22	25 56 48.1	345 23 46.4
Febr. 1	25 25 1.8	117 9 36.7
11	24 53 15.4	248 55 27.0
21	24 21 29.1	20 41 17.3
März 2	23 49 42.8	152 27 7.6
12	23 17 56.4	284 12 57.9
22	22 46 10.1	55 58 48.2
April 1	22 14 23.7	187 44 38.5
11	21 42 37.4	319 30 28.8
21	21 10 51.1	91 16 19.1
Mai 1	20 39 4.7	223 2 9.4
11	20 7 18.4	354 47 59.7
21	19 35 32.0	126 33 50.0
31	19 3 45.7	258 19 40.2
Juni 10	18 31 59.4	30 5 30.5
20	18 0 13.0	161 51 20.8
30	17 28 26.7	293 37 11.1
Juli 10	16 56 40.3	65 23 1.4
20	16 24 54.0	197 8 51.7
30	15 53 7.6	328 54 42.0
Aug. 9	15 21 21.3	100 40 32.3
19	14 49 34.9	232 26 22.6
29	14 17 48.6	4 12 12.9
Sept. 8	13 46 2.2	135 58 3.1
18	13 14 15.9	267 43 53.4
28	12 42 29.5	39 29 43.7
Okt. 8	12 10 43.2	171 15 34.0
18	11 38 56.8	303 1 24.3
28	11 7 10.5	74 47 14.6
Nov. 7	10 35 24.2	206 33 4.9
17	10 3 37.8	338 18 55.2
27	9 31 51.5	110 4 45.5
Dez. 7	9 0 5.1	241 50 35.8
17	8 28 18.8	13 36 26.1
27	7 56 32.5	145 22 16.4
37	7 24 46.1	277 8 6.7

Bewegung der mittleren Länge des Mondes nach mittlerer Sonnenzeit

d	° ′ ″
1	13 10 35.0
2	26 21 10.1
3	39 31 45.1
4	52 42 20.1
5	65 52 55.1
6	79 3 30.2
7	92 14 5.2
8	105 24 40.2
9	118 35 15.2
10	131 45 50.3

h	° ′ ″
1	0 32 56.5
2	1 5 52.9
3	1 38 49.4
4	2 11 45.8
5	2 44 42.3
6	3 17 38.8
7	3 50 35.2
8	4 23 31.7
9	4 56 28.1
10	5 29 24.6
11	6 2 21.1
12	6 35 17.5
13	7 8 14.0
14	7 41 10.4
15	8 14 6.9
16	8 47 3.4
17	9 19 59.8
18	9 52 56.3
19	10 25 52.7
20	10 58 49.2
21	11 31 45.6
22	12 4 42.1
23	12 37 38.5
24	13 10 35.0

m	′ ″	m	′ ″
1	0 32.9	31	17 1.2
2	1 5.9	32	17 34.1
3	1 38.8	33	18 7.1
4	2 11.8	34	18 40.0
5	2 44.7	35	19 12.9
6	3 17.6	36	19 45.9
7	3 50.6	37	20 18.8
8	4 23.5	38	20 51.8
9	4 56.5	39	21 24.7
10	5 29.4	40	21 57.7
11	6 2.4	41	22 30.6
12	6 35.3	42	23 3.5
13	7 8.2	43	23 36.5
14	7 41.2	44	24 9.4
15	8 14.1	45	24 42.3
16	8 47.1	46	25 15.3
17	9 20.0	47	25 48.2
18	9 52.9	48	26 21.2
19	10 25.9	49	26 54.1
20	10 58.8	50	27 27.1
21	11 31.8	51	28 0.0
22	12 4.7	52	28 32.9
23	12 37.6	53	29 5.9
24	13 10.6	54	29 38.8
25	13 43.5	55	30 11.7
26	14 16.5	56	30 44.7
27	14 49.4	57	31 17.6
28	15 22.3	58	31 50.6
29	15 55.3	59	32 23.5
30	16 28.2	60	32 56.5

s	″
10	5.5
20	11.0
30	16.5
40	22.0
50	27.5
60	32.9

Meridian und Polhöhe von Berlin.

Datum	SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
	h m	h m	h m	h m
Jan. 1	3 53	20 14	0 54	18 1
2	3 54	20 13	1 25	19 29
3	3 55	20 13	2 12	20 42
4	3 56	20 13	3 21	21 33
5	3 58	20 13	4 49	22 5
6	3 59	20 12	6 25	22 27
7	4 0	20 12	7 59	22 42
8	4 1	20 11	9 29	22 55
9	4 3	20 11	10 51	23 6
10	4 4	20 10	12 10	23 17
11	4 5	20 10	13 28	23 28
12	4 7	20 9	14 45	23 41
13	4 8	20 8	16 2	23 59
14	4 10	20 7	17 17	—
			Unterg.	Aufg.
15	4 12	20 6	0 23	18 27
16	4 13	20 5	0 55	19 27
17	4 15	20 4	1 41	20 15
18	4 16	20 3	2 40	20 49
19	4 18	20 2	3 49	21 13
20	4 20	20 1	5 3	21 30
21	4 21	20 0	6 19	21 44
22	4 23	19 59	7 34	21 55
23	4 25	19 58	8 48	22 5
24	4 27	19 56	10 3	22 15
25	4 29	19 55	11 19	22 25
26	4 30	19 54	12 39	22 38
27	4 32	19 52	14 4	22 55
28	4 34	19 51	15 32	23 19
29	4 36	19 49	17 0	23 56
30	4 38	19 48	18 19	—
			Aufg.	Unterg.
31	4 40	19 46	0 52	19 19
Febr. 1	4 42	19 45	2 11	20 0
2	4 43	19 43	3 44	20 27
3	4 45	19 41	5 21	20 46
4	4 47	19 40	6 55	21 0
5	4 49	19 38	8 24	21 12
6	4 51	19 36	9 48	21 22
7	4 53	19 34	11 9	21 34

Datum	SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
	h m	h m	h m	h m
Febr. 8	4 55	19 33	12 29	21 46
9	4 57	19 31	13 48	22 2
10	4 59	19 29	15 6	22 24
11	5 1	19 27	16 19	22 53
12	5 3	19 25	17 23	23 34
13	5 5	19 23	18 14	—
			Unterg.	Aufg.
14	5 6	19 21	0 29	18 51
15	5 8	19 19	1 36	19 18
16	5 10	19 17	2 50	19 38
17	5 12	19 15	4 6	19 52
18	5 14	19 13	5 22	20 4
19	5 16	19 11	6 37	20 14
20	5 18	19 9	7 53	20 23
21	5 20	19 7	9 9	20 33
22	5 21	19 5	10 28	20 45
23	5 23	19 3	11 50	21 0
24	5 25	19 1	13 15	21 20
25	5 27	18 58	14 42	21 50
26	5 29	18 56	16 3	22 36
27	5 31	18 54	17 9	23 44
28	5 33	18 52	17 56	—
			Aufg.	Unterg.
29	5 35	18 50	1 9	18 27
März 1	5 36	18 47	2 43	18 48
2	5 38	18 45	4 18	19 4
3	5 40	18 43	5 49	19 17
4	5 42	18 41	7 16	19 28
5	5 44	18 38	8 41	19 39
6	5 46	18 36	10 4	19 51
7	5 48	18 34	11 26	20 5
8	5 49	18 31	12 47	20 24
9	5 51	18 29	14 4	20 51
10	5 53	18 27	15 14	21 28
11	5 55	18 24	16 11	22 18
12	5 57	18 22	16 53	23 21
13	5 58	18 20	17 23	—
			Unterg.	Aufg.
14	6 0	18 18	0 33	17 44

Meridian und Polhöhe von Berlin.

Datum	SONNE		MOND	
	Unterg.	Aufg.	Unterg.	Aufg.
	h m	h m	h m	h m
März 15	6 2	18 15	1 49	18 0
16	6 4	18 13	3 5	18 12
17	6 5	18 11	4 22	18 22
18	6 7	18 8	5 38	18 32
19	6 9	18 6	6 55	18 42
20	6 11	18 3	8 14	18 53
21	6 12	18 1	9 37	19 6
22	6 14	17 59	11 3	19 24
23	6 16	17 56	12 30	19 51
24	6 18	17 54	13 53	20 31
25	6 19	17 51	15 3	21 30
26	6 21	17 49	15 55	22 48
27	6 23	17 47	16 30	—
			Aufg.	Unterg.
28	6 25	17 44	0 17	16 53
29	6 26	17 42	1 49	17 10
30	6 28	17 40	3 20	17 23
31	6 30	17 37	4 47	17 34
April 1	6 32	17 35	6 12	17 45
2	6 34	17 33	7 36	17 56
3	6 35	17 30	8 59	18 9
4	6 37	17 28	10 22	18 26
5	6 39	17 26	11 43	18 49
6	6 40	17 23	12 58	19 22
7	6 42	17 21	14 1	20 7
8	6 44	17 19	14 50	21 5
9	6 46	17 17	15 25	22 14
10	6 47	17 14	15 49	23 29
11	6 49	17 12	16 6	—
			Unterg.	Aufg.
12	6 51	17 10	0 45	16 19
13	6 53	17 7	2 2	16 30
14	6 54	17 5	3 18	16 40
15	6 56	17 3	4 35	16 50
16	6 58	17 1	5 54	17 0
17	7 0	16 59	7 17	17 13
18	7 1	16 56	8 44	17 30
19	7 3	16 54	10 13	17 53
20	7 5	16 52	11 40	18 29
21	7 7	16 50	12 56	19 23

Datum	SONNE		MOND	
	Unterg.	Aufg.	Unterg.	Aufg.
	h m	h m	h m	h m
April 22	7 8	16 48	13 54	20 36
23	7 10	16 46	14 34	22 2
24	7 12	16 44	14 59	23 32
25	7 13	16 42	15 17	—
			Aufg.	Unterg.
26	7 15	16 40	1 1	15 31
27	7 17	16 38	2 28	15 42
28	7 19	16 35	3 51	15 53
29	7 20	16 33	5 13	16 4
30	7 22	16 31	6 35	16 16
Mai 1	7 24	16 29	7 58	16 31
2	7 25	16 28	9 20	16 51
3	7 27	16 26	10 39	17 19
4	7 29	16 24	11 48	17 59
5	7 31	16 22	12 43	18 52
6	7 32	16 20	13 24	19 58
7	7 34	16 18	13 52	21 11
8	7 35	16 16	14 11	22 26
9	7 37	16 15	14 26	23 42
10	7 39	16 13	14 38	—
			Unterg.	Aufg.
11	7 40	16 11	0 57	14 48
12	7 42	16 10	2 13	14 57
13	7 43	16 8	3 30	15 7
14	7 45	16 7	4 50	15 19
15	7 47	16 5	6 16	15 34
16	7 48	16 4	7 46	15 54
17	7 50	16 2	9 17	16 25
18	7 51	16 1	10 41	17 13
19	7 53	15 59	11 48	18 21
20	7 54	15 58	12 34	19 46
21	7 56	15 57	13 4	21 18
22	7 57	15 55	13 25	22 48
23	7 58	15 54	13 39	—
			Aufg.	Unterg.
24	8 0	15 53	0 15	13 51
25	8 1	15 52	1 38	14 2
26	8 3	15 51	2 59	14 12
27	8 4	15 49	4 19	14 23

Meridian und Polhöhe von Berlin.

Datum		SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
		h m	h m	h m	h m
Mai	28	8 5	15 48	5 40	14 37
	29	8 7	15 47	7 2	14 55
	30	8 8	15 46	8 21	15 20
	31	8 9	15 46	9 34	15 54
Juni	1	8 10	15 45	10 35	16 43
	2	8 11	15 44	11 21	17 44
	3	8 12	15 43	11 53	18 55
	4	8 13	15 43	12 16	20 10
	5	8 14	15 42	12 32	21 25
	6	8 15	15 42	12 44	22 39
	7	8 16	15 41	12 55	23 53
	8	8 17	15 41	13 4	—
				Unterg.	Aufg.
	9	8 18	15 40	1 8	13 13
	10	8 19	15 40	2 25	13 24
	11	8 19	15 39	3 46	13 37
	12	8 20	15 39	5 13	13 55
	13	8 21	15 39	6 44	14 20
	14	8 21	15 39	8 14	15 0
	15	8 22	15 39	9 31	16 1
	16	8 22	15 39	10 27	17 22
	17	8 23	15 39	11 4	18 55
	18	8 23	15 39	11 29	20 30
	19	8 24	15 39	11 46	22 0
	20	8 24	15 39	11 59	23 26
	21	8 24	15 39	12 10	—
				Aufg.	Unterg.
	22	8 24	15 39	0 48	12 20
	23	8 24	15 40	2 9	12 31
	24	8 24	15 40	3 29	12 44
	25	8 24	15 40	4 49	13 0
	26	8 24	15 41	6 8	13 23
	27	8 24	15 41	7 23	13 54
	28	8 24	15 42	8 28	14 37
	29	8 24	15 42	9 18	15 35
	30	8 24	15 43	9 54	16 43
Juli	1	8 24	15 44	10 20	17 57
	2	8 23	15 44	10 38	19 12
	3	8 23	15 45	10 51	20 26
	4	8 22	15 46	11 2	21 39

Datum		SONNE Unterg.	SONNE Aufg.	MOND Aufg.	MOND Unterg.
		h m	h m	h m	h m
Juli	5	8 22	15 47	11 11	22 52
	6	8 21	15 48	11 20	—
				Unterg.	Aufg.
	7	8 21	15 49	0 6	11 30
	8	8 20	15 50	1 24	11 42
	9	8 19	15 51	2 46	11 56
	10	8 19	15 52	4 13	12 17
	11	8 18	15 53	5 42	12 49
	12	8 17	15 54	7 6	13 38
	13	8 16	15 55	8 13	14 51
	14	8 15	15 57	8 59	16 21
	15	8 14	15 58	9 30	17 59
	16	8 13	15 59	9 50	19 35
	17	8 12	16 0	10 4	21 6
	18	8 11	16 2	10 16	22 32
	19	8 10	16 3	10 27	23 55
	20	8 8	16 4	10 38	—
				Aufg.	Unterg.
	21	8 7	16 6	1 17	10 51
	22	8 6	16 7	2 38	11 6
	23	8 4	16 9	3 58	11 26
	24	8 3	16 10	5 14	11 54
	25	8 1	16 11	6 22	12 33
	26	8 0	16 13	7 17	13 27
	27	7 59	16 15	7 57	14 33
	28	7 57	16 16	8 24	15 46
	29	7 55	16 17	8 44	17 1
	30	7 54	16 19	8 59	18 16
	31	7 52	16 21	9 10	19 29
Aug.	1	7 50	16 22	9 20	20 41
	2	7 49	16 24	9 29	21 54
	3	7 47	16 25	9 38	23 9
	4	7 45	16 27	9 48	—
				Unterg.	Aufg.
	5	7 43	16 28	0 27	10 1
	6	7 42	16 30	1 50	10 18
	7	7 40	16 32	3 17	10 43
	8	7 38	16 33	4 43	11 22
	9	7 36	16 35	5 55	12 22

Meridian und Polhöhe von Berlin.

Datum	SONNE		MOND	
	Unterg.	Aufg.	Unterg.	Aufg.
	h m	h m	h m	h m
Aug. 10	7 34	16 37	6 50	13 44
11	7 32	16 38	7 27	15 20
12	7 30	16 40	7 51	16 59
13	7 28	16 42	8 8	18 34
14	7 26	16 43	8 22	20 5
15	7 24	16 45	8 34	21 32
16	7 22	16 47	8 44	22 57
17	7 20	16 48	8 56	—
			Aufg.	Unterg.
18	7 18	16 50	0 21	9 11
19	7 16	16 52	1 44	9 29
20	7 14	16 53	3 4	9 54
21	7 12	16 55	4 16	10 30
22	7 10	16 57	5 15	11 19
23	7 7	16 58	5 59	12 22
24	7 5	17 0	6 30	13 33
25	7 3	17 2	6 51	14 48
26	7 1	17 3	7 7	16 4
27	6 58	17 5	7 19	17 18
28	6 56	17 7	7 29	18 31
29	6 54	17 8	7 37	19 44
30	6 52	17 10	7 46	20 59
31	6 49	17 12	7 56	22 16
Sept. 1	6 47	17 13	8 8	23 36
2	6 45	17 15	8 23	—
			Unterg.	Aufg.
3	6 43	17 17	1 0	8 44
4	6 40	17 18	2 24	9 16
5	6 38	17 20	3 41	10 5
6	6 36	17 22	4 42	11 16
7	6 33	17 23	5 25	12 44
8	6 31	17 25	5 53	14 20
9	6 29	17 27	6 12	15 57
10	6 26	17 28	6 27	17 30
11	6 24	17 30	6 39	19 0
12	6 22	17 32	6 50	20 28
13	6 19	17 33	7 2	21 56
14	6 17	17 35	7 15	23 22
15	6 14	17 37	7 31	—

Datum	SONNE		MOND	
	Unterg.	Aufg.	Aufg.	Unterg.
	h m	h m	h m	h m
Sept. 16	6 12	17 38	0 45	7 54
17	6 10	17 40	2 3	8 26
18	6 7	17 42	3 9	9 11
19	6 5	17 43	3 58	10 9
20	6 2	17 45	4 33	11 19
21	6 0	17 47	4 58	12 33
22	5 58	17 48	5 15	13 49
23	5 55	17 50	5 28	15 4
24	5 53	17 52	5 38	16 18
25	5 51	17 54	5 47	17 32
26	5 48	17 55	5 56	18 47
27	5 46	17 57	6 5	20 4
28	5 44	17 59	6 16	21 24
29	5 41	18 0	6 30	22 48
30	5 39	18 2	6 49	—
			Unterg.	Aufg.
Okt. 1	5 37	18 4	0 12	7 17
2	5 34	18 5	1 32	7 59
3	5 32	18 7	2 37	9 1
4	5 29	18 9	3 24	10 22
5	5 27	18 10	3 56	11 53
6	5 25	18 12	4 17	13 26
7	5 23	18 14	4 33	14 58
8	5 20	18 16	4 45	16 28
9	5 18	18 17	4 56	17 56
10	5 16	18 19	5 7	19 24
11	5 13	18 21	5 20	20 52
12	5 11	18 23	5 35	22 19
13	5 9	18 25	5 54	23 42
14	5 6	18 26	6 22	—
			Aufg.	Unterg.
15	5 4	18 28	0 55	7 2
16	5 2	18 30	1 52	7 56
17	5 0	18 32	2 34	9 2
18	4 58	18 34	3 2	10 16
19	4 56	18 35	3 21	11 32
20	4 53	18 37	3 35	12 47
21	4 51	18 39	3 46	14 1
22	4 49	18 41	3 56	15 15

Meridian und Polhöhe von Berlin.

Datum	Sonne Unterg. h m	Sonne Aufg. h m	Mond Aufg. h m	Mond Unterg. h m
Okt. 23	4 47	18 43	4 5	16 29
24	4 45	18 44	4 14	17 46
25	4 43	18 46	4 24	19 7
26	4 41	18 48	4 37	20 31
27	4 39	18 50	4 54	21 57
28	4 37	18 52	5 19	23 20
29	4 35	18 54	5 57	—
			Unterg.	Aufg.
30	4 33	18 56	0 31	6 54
31	4 31	18 58	1 24	8 9
Nov. 1	4 29	19 0	1 59	9 37
2	4 27	19 1	2 23	11 8
3	4 25	19 3	2 40	12 38
4	4 23	19 5	2 53	14 5
5	4 22	19 7	3 4	15 31
6	4 20	19 9	3 15	16 57
7	4 18	19 11	3 26	18 23
8	4 16	19 12	3 39	19 50
9	4 15	19 14	3 57	21 16
10	4 13	19 16	4 21	22 35
11	4 12	19 18	4 55	23 40
12	4 10	19 20	5 44	—
			Aufg.	Unterg.
13	4 8	19 22	0 29	6 46
14	4 7	19 23	1 2	7 58
15	4 5	19 25	1 25	9 13
16	4 4	19 27	1 41	10 28
17	4 3	19 29	1 54	11 42
18	4 1	19 31	2 3	12 55
19	4 0	19 32	2 12	14 9
20	3 59	19 34	2 21	15 24
21	3 57	19 36	2 31	16 42
22	3 56	19 37	2 43	18 5
23	3 55	19 39	2 58	19 33
24	3 54	19 41	3 20	20 59
25	3 53	19 42	3 53	22 18
26	3 52	19 44	4 44	23 19
27	3 51	19 46	5 56	—

Datum	Sonne Unterg. h m	Sonne Aufg. h m	Mond Unterg. h m	Mond Aufg. h m
Nov. 28	3 50	19 47	0 0	7 22
29	3 49	19 49	0 28	8 54
30	3 49	19 50	0 47	10 25
Dez. 1	3 48	19 51	1 1	11 52
2	3 47	19 53	1 12	13 17
3	3 47	19 54	1 23	14 40
4	3 46	19 56	1 34	16 4
5	3 45	19 57	1 46	17 29
6	3 45	19 58	2 1	18 53
7	3 45	19 59	2 22	20 14
8	3 44	20 1	2 52	21 25
9	3 44	20 2	3 34	22 21
10	3 44	20 3	4 32	23 1
11	3 44	20 4	5 41	23 27
12	3 44	20 5	6 56	23 45
13	3 44	20 6	8 11	23 59
14	3 44	20 7	9 25	—
			Aufg.	Unterg.
15	3 44	20 8	0 10	10 38
16	3 44	20 8	0 19	11 50
17	3 44	20 9	0 28	13 2
18	3 44	20 10	0 37	14 17
19	3 44	20 10	0 48	15 37
20	3 45	20 11	1 1	17 1
21	3 45	20 11	1 19	18 29
22	3 46	20 12	1 47	19 53
23	3 46	20 12	2 29	21 4
24	3 47	20 13	3 33	21 55
25	3 48	20 13	4 57	22 29
26	3 48	20 13	6 31	22 51
27	3 49	20 13	8 6	23 7
28	3 50	20 14	9 38	23 20
29	3 51	20 14	11 5	23 31
30	3 52	20 14	12 29	23 42
31	3 53	20 14	13 52	23 53

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Jan.	1	17 39 55.42	−2 13.42	−20 11 27.7	+ 0 15.8	9.863773	23 1	4 10
	2	17 37 42.00	1 29.92	20 11 11.9	− 1 44.2	9.873410	22 55	4 10
	3	17 36 12.08	0 47.89	20 12 56.1	3 33.8	9.883551	22 49	4 10
	4	17 35 24.19	−0 8.04	20 16 29.9	5 10.7	9.894009	22 45	4 9
	5	17 35 16.15	+0 29.21	20 21 40.6	− 6 34.1	9.904624	22 41	4 9
	6	17 35 45.36	1 3.65	−20 28 14.7	7 43.4	9.915265	22 37	4 8
	7	17 36 49.01	1 35.25	20 35 58.1	8 38.7	9.925829	22 34	4 7
	8	17 38 24.26	2 4.05	20 44 36.8	9 20.7	9.936235	22 32	4 6
	9	17 40 28.31	2 30.22	20 53 57.5	9 49.9	9.946421	22 30	4 5
	10	17 42 58.53	+2 53.90	21 3 47.4	−10 7.5	9.956343	22 28	4 4
	11	17 45 52.43	3 15.30	−21 13 54.9	10 14.4	9.965970	22 27	4 3
	12	17 49 7.73	3 34.62	21 24 9.3	10 11.5	9.975280	22 27	4 2
	13	17 52 42.35	3 52.06	21 34 20.8	9 59.8	9.984262	22 26	4 0
	14	17 56 34.41	4 7.81	21 44 20.6	9 40.4	9.992909	22 26	3 59
	15	18 0 42.22	+4 22.03	21 54 1.0	− 9 14.0	0.001221	22 27	3 58
	16	18 5 4.25	4 34.89	−22 3 15.0	8 41.4	0.009200	22 27	3 57
	17	18 9 39.14	4 46.54	22 11 56.4	8 3.3	0.016852	22 28	3 56
	18	18 14 25.68	4 57.09	22 19 59.7	7 20.2	0.024183	22 28	3 55
	19	18 19 22.77	5 6.66	22 27 19.9	6 32.7	0.031203	22 29	3 54
	20	18 24 29.43	+5 15.36	22 33 52.6	− 5 41.3	0.037921	22 31	3 54
	21	18 29 44.79	5 23.28	−22 39 33.9	4 46.5	0.044348	22 32	3 53
	22	18 35 8.07	5 30.49	22 44 20.4	3 48.7	0.050493	22 33	3 52
	23	18 40 38.56	5 37.07	22 48 9.1	2 48.1	0.056367	22 35	3 52
	24	18 46 15.63	5 43.08	22 50 57.2	1 45.0	0.061980	22 37	3 52
	25	18 51 58.71	+5 48.57	22 52 42.2	− 0 39.8	0.067342	22 38	3 51
	26	18 57 47.28	5 53.59	−22 53 22.0	+ 0 27.4	0.072463	22 40	3 51
	27	19 3 40.87	5 58.20	22 52 54.6	1 36.5	0.077352	22 42	3 51
	28	19 9 39.07	6 2.43	22 51 18.1	2 47.0	0.082017	22 44	3 51
	29	19 15 41.50	6 6.30	22 48 31.1	3 58.9	0.086467	22 46	3 52
	30	19 21 47.80	+6 9.87	22 44 32.2	+ 5 12.2	0.090710	22 48	3 52
	31	19 27 57.67	6 13.14	−22 39 20.0	6 26.6	0.094753	22 51	3 53
Febr.	1	19 34 10.81	6 16.16	22 32 53.4	7 42.1	0.098602	22 53	3 54
	2	19 40 26.97	6 18.93	22 25 11.3	8 58.6	0.102264	22 55	3 55
	3	19 46 45.90	6 21.49	22 16 12.7	10 16.0	0.105744	22 58	3 56
	4	19 53 7.39	+6 23.85	22 5 56.7	+11 34.2	0.109048	23 0	3 57
	5	19 59 31.24	6 26.03	−21 54 22.5	12 53.0	0.112181	23 3	3 58
	6	20 5 57.27	6 28.05	21 41 29.5	14 12.5	0.115146	23 5	4 0
	7	20 12 25.32	6 29.91	21 27 17.0	15 32.7	0.117947	23 8	4 1
	8	20 18 55.23	6 31.64	21 11 44.3	16 53.3	0.120587	23 10	4 3
	9	20 25 26.87		20 54 51.0		0.123070	23 13	4 5

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 8	20 18 55.23	+6 31.64	−21 11 44.3	+16 53.3	0.120587	23 10	4 3
9	20 25 26.87	6 33.24	20 54 51.0	18 14.5	0.123070	23 13	4 5
10	20 32 0.11	6 34.74	20 36 36.5	19 36.1	0.125397	23 15	4 7
11	20 38 34.85	6 36.14	20 17 0.4	20 58.1	0.127569	23 18	4 9
12	20 45 10.99	+6 37.46	19 56 2.3	+22 20.4	0.129588	23 21	4 12
13	20 51 48.45	6 38.70	−19 33 41.9	23 43.1	0.131455	23 23	4 14
14	20 58 27.15	6 39.87	19 9 58.8	25 6.0	0.133169	23 26	4 17
15	21 5 7.02	6 41.00	18 44 52.8	26 29.1	0.134731	23 29	4 19
16	21 11 48.02	6 42.10	18 18 23.7	27 52.4	0.136140	23 31	4 22
17	21 18 30.12	+6 43.15	17 50 31.3	+29 15.8	0.137393	23 34	4 25
18	21 25 13.27	6 44.18	−17 21 15.5	30 39.4	0.138488	23 37	4 28
19	21 31 57.45	6 45.20	16 50 36.1	32 2.9	0.139423	23 40	4 31
20	21 38 42.65	6 46.22	16 18 33.2	33 26.4	0.140194	23 43	4 34
21	21 45 28.87	6 47.22	15 45 6.8	34 49.8	0.140796	23 45	4 38
22	21 52 16.09	+6 48.24	15 10 17.0	+36 13.0	0.141224	23 48	4 41
23	21 59 4.33	6 49.25	−14 34 4.0	37 36.0	0.141473	23 51	4 45
24	22 5 53.58	6 50.28	13 56 28.0	38 58.5	0.141534	23 54	4 48
25	22 12 43.86	6 51.32	13 17 29.5	40 20.4	0.141400	23 57	4 52
26	22 19 35.18	6 52.37	12 37 9.1	41 41.7	0.141062	0 0	4 56
27	22 26 27.55	+6 53.40	11 55 27.4	+43 2.1	0.140509	0 3	5 0
28	22 33 20.95	6 54.43	−11 12 25.3	44 21.2	0.139730	0 6	5 4
29	22 40 15.38	6 55.44	10 28 4.1	45 39.0	0.138713	0 9	5 8
März 1	22 47 10.82	6 56.40	9 42 25.1	46 55.0	0.137443	0 12	5 12
2	22 54 7.22	6 57.30	8 55 30.1	48 8.8	0.135904	0 15	5 16
3	23 1 4.52	+6 58.09	8 7 21.3	+49 19.9	0.134079	0 18	5 21
4	23 8 2.61	6 58.75	−7 18 1.4	50 27.9	0.131950	0 21	5 25
5	23 15 1.36	6 59.21	6 27 33.5	51 31.9	0.129498	0 24	5 30
6	23 22 0.57	6 59.43	5 36 1.6	52 31.4	0.126700	0 27	5 34
7	23 29 0.00	6 59.32	4 43 30.2	53 25.5	0.123534	0 30	5 39
8	23 35 59.32	+6 58.83	3 50 4.7	+54 13.2	0.119977	0 33	5 44
9	23 42 58.15	6 57.84	−2 55 51.5	54 53.4	0.116004	0 36	5 48
10	23 49 55.99	6 56.26	2 0 58.1	55 25.3	0.111591	0 39	5 53
11	23 56 52.25	6 53.99	1 5 32.8	55 47.5	0.106714	0 42	5 58
12	0 3 46.24	6 50.90	−0 9 45.3	55 58.8	0.101350	0 45	6 3
13	0 10 37.14	+6 46.86	+0 46 13.5	+55 58.2	0.095476	0 48	6 8
14	0 17 24.00	6 41.76	+1 42 11.7	55 44.5	0.089073	0 51	6 13
15	0 24 5.76	6 35.47	2 37 56.2	55 16.6	0.082125	0 53	6 17
16	0 30 41.23	6 27.90	3 33 12.8	54 33.8	0.074620	0 56	6 22
17	0 37 9.13	6 18.94	4 27 46.6	53 35.6	0.066551	0 59	6 27
18	0 43 28.07		5 21 22.2		0.057917	1 1	6 32

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	0 37 9.13	+6 18.94	+ 4 27 46.6	+53 35.6	0.066551	0 59	6 27
18	0 43 28.07	6 8.51	5 21 22.2	52 21.4	0.057917	1 1	6 32
19	0 49 36.58	5 56.57	6 13 43.6	50 51.3	0.048725	1 3	6 36
20	0 55 33.15	5 43.08	7 4 34.9	49 5.5	0.038987	1 5	6 41
21	1 1 16.23	+5 28.06	7 53 40.4	+47 4.6	0.028723	1 7	6 45
22	1 6 44.29	5 11.54	+ 8 40 45.0	44 49.2	0.017959	1 8	6 50
23	1 11 55.83	4 53.56	9 25 34.2	42 20.3	0.006730	1 10	6 54
24	1 16 49.39	4 34.21	10 7 54.5	39 38.9	9.995076	1 11	6 58
25	1 21 23.60	4 13.58	10 47 33.4	36 46.3	9.983043	1 11	7 2
26	1 25 37.18	+3 51.78	11 24 19.7	+33 43.4	9.970683	1 12	7 5
27	1 29 28.96	3 28.96	+11 58 3.1	30 31.5	9.958052	1 11	7 8
28	1 32 57.92	3 5.23	12 28 34.6	27 11.5	9.945210	1 11	7 11
29	1 36 3.15	2 40.76	12 55 46.1	23 44.3	9.932223	1 10	7 13
30	1 38 43.91	2 15.74	13 19 30.4	20 11.0	9.919157	1 9	7 16
31	1 40 59.65	+1 50.33	13 39 41.4	+16 32.6	9.906084	1 7	7 18
April 1	1 42 49.98	1 24.73	+13 56 14.0	12 49.9	9.893078	1 5	7 19
2	1 44 14.71	0 59.20	14 9 3.9	9 4.0	9.880216	1 3	7 21
3	1 45 13.91	0 33.97	14 18 7.9	5 16.2	9.867578	1 0	7 22
4	1 45 47.88	+0 9.30	14 23 24.1	+ 1 28.0	9.855247	0 56	7 22
5	1 45 57.18	−0 14.50	14 24 52.1	− 2 19.0	9.843305	0 52	7 22
6	1 45 42.68	0 37.15	+14 22 33.1	6 2.7	9.831837	0 48	7 22
7	1 45 5.53	0 58.32	14 16 30.4	9 40.8	9.820929	0 44	7 21
8	1 44 7.21	1 17.71	14 6 49.6	13 10.9	9.810663	0 39	7 20
9	1 42 49.50	1 35.01	13 53 38.7	16 29.7	9.801120	0 34	7 19
10	1 41 14.49	−1 49.94	13 37 9.0	−19 34.4	9.792376	0 28	7 18
11	1 39 24.55	2 2.28	+13 17 34.6	22 21.9	9.784499	0 22	7 16
12	1 37 22.27	2 11.84	12 55 12.7	24 49.1	9.777551	0 16	7 13
13	1 35 10.43	2 18.50	12 30 23.6	26 53.5	9.771581	0 10	7 11
14	1 32 51.93	2 22.20	12 3 30.1	28 32.9	9.766626	0 4	7 8
15	1 30 29.73	−2 22.96	11 34 57.2	−29 45.4	9.762710	23 58	7 6
16	1 28 6.77	2 20.90	+11 5 11.8	30 30.6	9.759844	23 51	7 3
17	1 25 45.87	2 16.15	10 34 41.2	30 48.2	9.758023	23 45	7 0
18	1 23 29.72	2 8.92	10 3 53.0	30 38.6	9.757229	23 39	6 57
19	1 21 20.80	1 59.47	9 33 14.4	30 3.2	9.757431	23 33	6 54
20	1 19 21.33	−1 48.09	9 3 11.2	−29 4.1	9.758586	23 27	6 52
21	1 17 33.24	1 35.08	+ 8 34 7.1	27 43.6	9.760644	23 21	6 49
22	1 15 58.16	1 20.73	8 6 23.5	26 4.3	9.763546	23 15	6 46
23	1 14 37.43	1 5.33	7 40 19.2	24 9.1	9.767229	23 10	6 44
24	1 13 32.10	0 49.18	7 16 10.1	22 0.9	9.771624	23 5	6 42
25	1 12 42.92		6 54 9.2		9.776664	23 0	6 40

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	1 13 32.10	−0 49.18	+ 7 16 10.1	−22 0.9	9.771624	23 5	6 42
25	1 12 42.92	0 32.51	6 54 9.2	19 42.5	9.776664	23 0	6 40
26	1 12 10.41	−0 15.54	6 34 26.7	17 16.5	9.782281	22 56	6 38
27	1 11 54.87	+0 1.53	6 17 10.2	14 45.2	9.788409	22 52	6 37
28	1 11 56.40	+0 18.55	6 2 25.0	−12 10.9	9.794986	22 48	6 35
29	1 12 14.95	0 35.37	+ 5 50 14.1	9 35.5	9.801952	22 44	6 34
30	1 12 50.32	0 51.89	5 40 38.6	7 0.2	9.809252	22 41	6 33
Mai 1	1 13 42.21	1 8.04	5 33 38.4	4 26.4	9.816835	22 38	6 33
2	1 14 50.25	1 23.77	5 29 12.0	− 1 55.4	9.824655	22 35	6 32
3	1 16 14.02	+1 39.02	5 27 16.6	+ 0 32.1	9.832670	22 32	6 32
4	1 17 53.04	1 53.78	+ 5 27 48.7	2 55.6	9.840843	22 30	6 32
5	1 19 46.82	2 8.04	5 30 44.3	5 14.6	9.849141	22 28	6 33
6	1 21 54.86	2 21.82	5 35 58.9	7 28.7	9.857534	22 26	6 33
7	1 24 16.68	2 35.11	5 43 27.6	9 37.7	9.865996	22 25	6 34
8	1 26 51.79	+2 47.96	5 53 5.3	+11 41.6	9.874506	22 23	6 35
9	1 29 39.75	3 0.37	+ 6 4 46.9	13 40.2	9.883043	22 22	6 36
10	1 32 40.12	3 12.38	6 18 27.1	15 33.5	9.891590	22 21	6 37
11	1 35 52.50	3 24.02	6 34 0.6	17 21.7	9.900132	22 20	6 38
12	1 39 16.52	3 35.34	6 51 22.3	19 4.7	9.908657	22 20	6 40
13	1 42 51.86	+3 46.37	7 10 27.0	+20 42.6	9.917152	22 20	6 41
14	1 46 38.23	3 57.15	+ 7 31 9.6	22 15.6	9.925606	22 19	6 43
15	1 50 35.38	4 7.72	7 53 25.2	23 43.7	9.934012	22 19	6 45
16	1 54 43.10	4 18.12	8 17 8.9	25 7.0	9.942362	22 20	6 47
17	1 59 1.22	4 28.38	8 42 15.9	26 25.5	9.950648	22 20	6 50
18	2 3 29.60	+4 38.56	9 8 41.4	+27 39.4	9.958863	22 20	6 52
19	2 8 8.16	4 48.69	+ 9 36 20.8	28 48.6	9.967001	22 21	6 55
20	2 12 56.85	4 58.80	10 5 9.4	29 53.2	9.975056	22 22	6 57
21	2 17 55.65	5 8.93	10 35 2.6	30 53.1	9.983022	22 23	7 0
22	2 23 4.58	5 19.14	11 5 55.7	31 48.4	9.990892	22 24	7 3
23	2 28 23.72	+5 29.44	11 37 44.1	+32 38.9	9.998659	22 26	7 6
24	2 33 53.16	5 39.86	+12 10 23.0	33 24.5	0.006316	22 27	7 9
25	2 39 33.02	5 50.45	12 43 47.5	34 5.1	0.013856	22 29	7 12
26	2 45 23.47	6 1.21	13 17 52.6	34 40.3	0.021270	22 31	7 16
27	2 51 24.68	6 12.18	13 52 32.9	35 10.0	0.028549	22 33	7 19
28	2 57 36.86	+6 23.38	14 27 42.9	+35 33.8	0.035683	22 35	7 23
29	3 4 0.24	6 34.80	+15 3 16.7	35 51.3	0.042659	22 38	7 26
30	3 10 35.04	6 46.46	15 39 8.0	36 2.2	0.049465	22 40	7 30
31	3 17 21.50	6 58.33	16 15 10.2	36 5.8	0.056087	22 43	7 33
Juni 1	3 24 19.83	7 10.42	16 51 16.0	36 1.7	0.062510	22 46	7 37
2	3 31 30.25		17 27 17.7		0.068717	22 49	7 41

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Juni 1	3 24 19.83	+7 10.42	+16 51 16.0	+36 1.7	0.062510	22 46	7 37
2	3 31 30.25	7 22.69	17 27 17.7	35 49.3	0.068717	22 49	7 41
3	3 38 52.94	7 35.09	18 3 7.0	35 27.8	0.074690	22 53	7 45
4	3 46 28.03	7 47.55	18 38 34.8	34 56.7	0.080408	22 56	7 49
5	3 54 15.58	+8 0.00	19 13 31.5	+34 15.4	0.085851	23 0	7 53
6	4 2 15.58	8 12.33	+19 47 46.9	33 23.1	0.090997	23 4	7 56
7	4 10 27.91	8 24.43	20 21 10.0	32 19.4	0.095822	23 9	8 0
8	4 18 52.34	8 36.15	20 53 29.4	31 3.8	0.100303	23 13	8 4
9	4 27 28.49	8 47.34	21 24 33.2	29 35.9	0.104417	23 18	8 8
10	4 36 15.83	+8 57.82	21 54 9.1	+27 55.8	0.108141	23 23	8 11
11	4 45 13.65	9 7.42	+22 22 4.9	26 3.6	0.111453	23 28	8 15
12	4 54 21.07	9 15.97	22 48 8.5	23 59.7	0.114334	23 33	8 18
13	5 3 37.04	9 23.29	23 12 8.2	21 44.8	0.116766	23 38	8 21
14	5 13 0.33	9 29.23	23 33 53.0	19 20.2	0.118736	23 43	8 24
15	5 22 29.56	+9 33.69	23 53 13.2	+16 47.0	0.120235	23 49	8 26
16	5 32 3.25	9 36.57	+24 10 0.2	14 6.8	0.121257	23 55	8 28
17	5 41 39.82	9 37.82	24 24 7.0	11 21.5	0.121801	0 0	8 30
18	5 51 17.64	9 37.45	24 35 28.5	8 32.9	0.121872	0 6	8 32
19	6 0 55.09	9 35.48	24 44 1.4	5 42.9	0.121479	0 12	8 33
20	6 10 30.57	+9 32.00	24 49 44.3	+ 2 53.2	0.120634	0 17	8 33
21	6 20 2.57	9 27.10	+24 52 37.5	+ 0 5.5	0.119353	0 23	8 34
22	6 29 29.67	9 20.92	24 52 43.0	− 2 38.7	0.117656	0 28	8 34
23	6 38 50.59	9 13.58	24 50 4.3	5 17.9	0.115563	0 34	8 34
24	6 48 4.17	9 5.25	24 44 46.4	7 51.2	0.113096	0 39	8 33
25	6 57 9.42	+8 56.06	24 36 55.2	−10 17.9	0.110279	0 44	8 32
26	7 6 5.48	8 46.17	+24 26 37.3	12 37.1	0.107134	0 49	8 30
27	7 14 51.65	8 35.71	24 14 0.2	14 48.7	0.103685	0 54	8 29
28	7 23 27.36	8 24.79	23 59 11.5	16 52.2	0.099953	0 59	8 27
29	7 31 52.15	8 13.54	23 42 19.3	18 47.6	0.095960	1 3	8 25
30	7 40 5.69	+8 2.05	23 23 31.7	−20 34.8	0.091725	1 8	8 22
Juli 1	7 48 7.74	7 50.40	+23 2 56.9	22 14.1	0.087266	1 12	8 20
2	7 55 58.14	7 38.65	22 40 42.8	23 45.6	0.082599	1 15	8 17
3	8 3 36.79	7 26.87	22 16 57.2	25 9.3	0.077740	1 19	8 14
4	8 11 3.66	7 15.11	21 51 47.9	26 25.8	0.072703	1 23	8 11
5	8 18 18.77	+7 3.38	21 25 22.1	−27 35.1	0.067499	1 26	8 8
6	8 25 22.15	6 51.73	+20 57 47.0	28 37.5	0.062140	1 29	8 4
7	8 32 13.88	6 40.16	20 29 9.5	29 33.3	0.056635	1 32	8 1
8	8 38 54.04	6 28.68	19 59 36.2	30 22.9	0.050992	1 35	7 58
9	8 45 22.72	6 17.30	19 29 13.3	31 6.3	0.045220	1 37	7 54
10	8 51 40.02		18 58 7.0		0.039324	1 40	7 51

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Juli	9	8 45 22.72	+6 17.30	+19 29 13.3	−31 6.3	0.045220	1 37	7 54
	10	8 51 40.02	6 6.03	18 58 7.0	31 43.8	0.039324	1 40	7 51
	11	8 57 46.05	5 54.85	18 26 23.2	32 15.6	0.033309	1 42	7 47
	12	9 3 40.90	5 43.75	17 54 7.6	32 42.0	0.027181	1 44	7 43
	13	9 9 24.65	+5 32.71	17 21 25.6	−33 3.0	0.020943	1 46	7 40
	14	9 14 57.36	5 21.71	+16 48 22.6	33 18.6	0.014598	1 47	7 37
	15	9 20 19.07	5 10.73	16 15 4.0	33 29.2	0.008150	1 49	7 33
	16	9 25 29.80	4 59.76	15 41 34.8	33 34.8	0.001600	1 50	7 30
	17	9 30 29.56	4 48.76	15 8 0.0	33 35.3	9.994952	1 51	7 27
	18	9 35 18.32	+4 37.71	14 34 24.7	−33 30.8	9.988207	1 52	7 23
	19	9 39 56.03	4 26.59	+14 0 53.9	33 21.3	9.981367	1 52	7 20
	20	9 44 22.62	4 15.36	13 27 32.6	33 6.7	9.974435	1 53	7 17
	21	9 48 37.98	4 3.97	12 54 25.9	32 47.1	9.967412	1 53	7 13
	22	9 52 41.95	3 52.41	12 21 38.8	32 22.3	9.960301	1 53	7 10
	23	9 56 34.36	+3 40.65	11 49 16.5	−31 52.2	9.953104	1 53	7 7
	24	10 0 15.01	3 28.64	+11 17 24.3	31 16.7	9.945825	1 53	7 4
	25	10 3 43.65	3 16.33	10 46 7.6	30 35.5	9.938468	1 53	7 1
	26	10 6 59.98	3 3.70	10 15 32.1	29 48.4	9.931037	1 52	6 58
	27	10 10 3.68	2 50.71	9 45 43.7	28 55.3	9.923539	1 51	6 55
	28	10 12 54.39	+2 37.31	9 16 48.4	−27 55.8	9.915981	1 50	6 53
	29	10 15 31.70	2 23.48	+ 8 48 52.6	26 49.7	9.908371	1 49	6 50
	30	10 17 55.18	2 9.17	8 22 2.9	25 36.7	9.900720	1 47	6 48
	31	10 20 4.35	1 54.35	7 56 26.2	24 16.2	9.893040	1 45	6 46
Aug.	1	10 21 58.70	1 39.01	7 32 10.0	22 48.1	9.885348	1 43	6 43
	2	10 23 37.71	+1 23.11	7 9 21.9	−21 12.1	9.877661	1 41	6 41
	3	10 25 0.82	1 6.64	+ 6 48 9.8	19 27.6	9.870001	1 38	6 39
	4	10 26 7.46	0 49.62	6 28 42.2	17 34.4	9.862393	1 35	6 38
	5	10 26 57.08	0 32.07	6 11 7.8	15 32.4	9.854867	1 32	6 36
	6	10 27 29.15	+0 14.01	5 55 35.4	13 21.4	9.847458	1 29	6 35
	7	10 27 43.16	−0 4.48	5 42 14.0	−11 1.3	9.840204	1 25	6 34
	8	10 27 38.68	0 23.32	+ 5 31 12.7	8 32.3	9.833151	1 21	6 33
	9	10 27 15.36	0 42.39	5 22 40.4	5 54.6	9.826351	1 17	6 32
	10	10 26 32.97	1 1.52	5 16 45.8	3 9.0	9.819861	1 12	6 31
	11	10 25 31.45	1 20.48	5 13 36.8	− 0 16.4	9.813745	1 7	6 31
	12	10 24 10.97	−1 39.04	5 13 20.4	+ 2 41.7	9.808073	1 2	6 31
	13	10 22 31.93	1 56.92	+ 5 16 2.1	5 43.6	9.802921	0 57	6 31
	14	10 20 35.01	2 13.73	5 21 45.7	8 47.1	9.798370	0 51	6 32
	15	10 18 21.28	2 29.12	5 30 32.8	11 49.3	9.794503	0 44	6 33
	16	10 15 52.16	2 42.67	5 42 22.1	14 47.1	9.791407	0 38	6 34
	17	10 13 9.49		5 57 9.2		9.789166	0 31	6 35

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Aug. 16	10 15 52.16	−2 42.67	+ 5 42 22.1	+14 47.1	9.791407	0 38	6 34
17	10 13 9.49	2 53.94	5 57 9.2	17 37.0	9.789166	0 31	6 35
18	10 10 15.55	3 2.50	6 14 46.2	20 15.1	9.787861	0 24	6 36
19	10 7 13.05	3 7.97	6 35 1.3	22 37.5	9.787567	0 17	6 38
20	10 4 5.08	−3 10.00	6 57 38.8	+24 40.6	9.788348	0 10	6 40
21	10 0 55.08	3 8.30	+ 7 22 19.4	26 20.9	9.790254	0 3	6 42
22	9 57 46.78	3 2.68	7 48 40.3	27 35.6	9.793320	23 56	6 45
23	9 54 44.10	2 53.09	8 16 15.9	28 22.6	9.797562	23 49	6 47
24	9 51 51.01	2 39.56	8 44 38.5	28 40.7	9.802974	23 43	6 50
25	9 49 11.45	−2 22.24	9 13 19.2	+28 29.2	9.809532	23 36	6 53
26	9 46 49.21	2 1.40	+ 9 41 48.4	27 48.7	9.817191	23 30	6 55
27	9 44 47.81	1 37.39	10 9 37.1	26 40.5	9.825886	23 24	6 58
28	9 43 10.42	1 10.63	10 36 17.6	25 6.0	9.835538	23 18	7 0
29	9 41 59.79	0 41.61	11 1 23.6	23 7.6	9.846052	23 13	7 3
30	9 41 18.18	−0 10.82	11 24 31.2	+20 47.5	9.857324	23 8	7 5
31	9 41 7.36	+0 21.22	+11 45 18.7	18 8.5	9.869242	23 4	7 7
Sept. 1	9 41 28.58	0 53.99	12 3 27.2	15 13.0	9.881690	23 0	7 8
2	9 42 22.57	1 27.00	12 18 40.2	12 3.8	9.894551	22 57	7 10
3	9 43 49.57	1 59.80	12 30 44.0	8 43.3	9.907708	22 55	7 11
4	9 45 49.37	+2 31.94	12 39 27.3	+ 5 14.0	9.921046	22 53	7 12
5	9 48 21.31	3 3.02	+12 44 41.3	+ 1 38.3	9.934456	22 52	7 12
6	9 51 24.33	3 32.70	12 46 19.6	− 2 1.4	9.947835	22 51	7 13
7	9 54 57.03	4 0.68	12 44 18.2	5 42.6	9.961087	22 50	7 12
8	9 58 57.71	4 26.68	12 38 35.6	9 23.0	9.974123	22 50	7 12
9	10 3 24.39	+4 50.52	12 29 12.6	−13 0.3	9.986862	22 51	7 11
10	10 8 14.91	5 12.03	+12 16 12.3	16 32.3	9.999234	22 52	7 10
11	10 13 26.94	5 31.15	11 59 40.0	19 56.7	0.011180	22 53	7 8
12	10 18 58.09	5 47.82	11 39 43.3	23 11.8	0.022650	22 55	7 6
13	10 24 45.91	6 2.09	11 16 31.5	26 15.8	0.033604	22 57	7 4
14	10 30 48.00	+6 14.05	10 50 15.7	−29 7.5	0.044014	22 59	7 1
15	10 37 2.05	6 23.80	+10 21 8.2	31 45.7	0.053859	23 1	6 59
16	10 43 25.85	6 31.51	9 49 22.5	34 9.9	0.063130	23 3	6 56
17	10 49 57.36	6 37.36	9 15 12.6	36 19.9	0.071824	23 6	6 53
18	10 56 34.72	6 41.56	8 38 52.7	38 15.6	0.079946	23 9	6 49
19	11 3 16.28	+6 44.32	8 0 37.1	−39 57.3	0.087507	23 11	6 46
20	11 10 0.60	6 45.82	+ 7 20 39.8	41 25.5	0.094522	23 14	6 42
21	11 16 46.42	6 46.29	6 39 14.3	42 41.0	0.101011	23 17	6 39
22	11 23 32.71	6 45.89	5 56 33.3	43 44.6	0.106995	23 20	6 35
23	11 30 18.60	6 44.78	5 12 48.7	44 37.1	0.112496	23 23	6 31
24	11 37 3.38		4 28 11.6		0.117540	23 25	6 27

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Sept.	23	11 30 18.60	+6 44.78	+ 5 12 48.7	−44 37.1	0.112496	23 23	6 31
	24	11 37 3.38	6 43.12	4 28 11.6	45 19.4	0.117540	23 25	6 27
	25	11 43 46.50	6 41.04	3 42 52.2	45 52.6	0.122151	23 28	6 23
	26	11 50 27.54	6 38.65	2 56 59.6	46 17.3	0.126352	23 31	6 19
	27	11 57 6.19	+6 36.05	2 10 42.3	−46 34.5	0.130166	23 34	6 15
	28	12 3 42.24	6 33.31	+ 1 24 7.8	46 45.0	0.133617	23 36	6 11
	29	12 10 15.55	6 30.50	+ 0 37 22.8	46 49.4	0.136725	23 39	6 7
	30	12 16 46.05	6 27.68	− 0 9 26.6	46 48.3	0.139510	23 41	6 3
Okt.	1	12 23 13.73	6 24.90	0 56 14.9	46 42.5	0.141990	23 44	5 59
	2	12 29 38.63	+6 22.18	1 42 57.4	−46 32.4	0.144182	23 46	5 55
	3	12 36 0.81	6 19.54	− 2 29 29.8	46 18.5	0.146102	23 49	5 51
	4	12 42 20.35	6 17.03	3 15 48.3	46 1.0	0.147764	23 51	5 47
	5	12 48 37.38	6 14.65	4 1 49.3	45 40.5	0.149182	23 54	5 43
	6	12 54 52.03	6 12.41	4 47 29.8	45 17.1	0.150366	23 56	5 39
	7	13 1 4.44	+6 10.32	5 32 46.9	−44 51.3	0.151328	23 58	5 35
	8	13 7 14.76	6 8.39	− 6 17 38.2	44 23.2	0.152077	0 0	5 31
	9	13 13 23.15	6 6.61	7 2 1.4	43 53.0	0.152621	0 3	5 27
	10	13 19 29.76	6 4.98	7 45 54.4	43 20.9	0.152968	0 5	5 23
	11	13 25 34.74	6 3.52	8 29 15.3	42 47.0	0.153125	0 7	5 19
	12	13 31 38.26	+6 2.21	9 12 2.3	−42 11.4	0.153097	0 9	5 15
	13	13 37 40.47	6 1.05	− 9 54 13.7	41 34.4	0.152889	0 11	5 11
	14	13 43 41.52	6 0.02	10 35 48.1	40 55.8	0.152506	0 13	5 7
	15	13 49 41.54	5 59.14	11 16 43.9	40 15.9	0.151951	0 15	5 4
	16	13 55 40.68	5 58.40	11 56 59.8	39 34.6	0.151226	0 17	5 0
	17	14 1 39.08	+5 57.78	12 36 34.4	−38 52.2	0.150334	0 19	4 56
	18	14 7 36.86	5 57.27	−13 15 26.6	38 8.4	0.149277	0 21	4 52
	19	14 13 34.13	5 56.87	13 53 35.0	37 23.4	0.148056	0 23	4 49
	20	14 19 31.00	5 56.58	14 30 58.4	36 37.2	0.146670	0 25	4 45
	21	14 25 27.58	5 56.36	15 7 35.6	35 49.8	0.145121	0 27	4 42
	22	14 31 23.94	+5 56.22	15 43 25.4	−35 1.2	0.143407	0 29	4 38
	23	14 37 20.16	5 56.15	−16 18 26.6	34 11.4	0.141526	0 31	4 34
	24	14 43 16.31	5 56.13	16 52 38.0	33 20.4	0.139478	0 33	4 31
	25	14 49 12.44	5 56.15	17 25 58.4	32 28.1	0.137261	0 35	4 28
	26	14 55 8.59	5 56.17	17 58 26.5	31 34.5	0.134871	0 37	4 24
	27	15 1 4.76	+5 56.19	18 30 1.0	−30 39.6	0.132305	0 39	4 21
	28	15 7 0.95	5 56.22	−19 0 40.6	29 43.4	0.129559	0 41	4 18
	29	15 12 57.17	5 56.19	19 30 24.0	28 45.9	0.126630	0 43	4 14
	30	15 18 53.36	5 56.10	19 59 9.9	27 46.9	0.123512	0 45	4 11
	31	15 24 49.46	5 55.91	20 26 56.8	26 46.5	0.120199	0 47	4 8
Nov.	1	15 30 45.37		20 53 43.3		0.116685	0 49	4 5

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Okt. 31	15 24 49.46	+5 55.91	−20 26 56.8	−26 46.5	0.120199	0 47	4 8
Nov. 1	15 30 45.37	5 55.61	20 53 43.3	25 44.6	0.116685	0 49	4 5
2	15 36 40.98	5 55.15	21 19 27.9	24 41.1	0.112965	0 51	4 2
3	15 42 36.13	5 54.51	21 44 9.0	23 36.1	0.109030	0 53	3 59
4	15 48 30.64	+5 53.63	22 7 45.1	−22 29.5	0.104873	0 55	3 57
5	15 54 24.27	5 52.47	−22 30 14.6	21 21.2	0.100485	0 57	3 54
6	16 0 16.74	5 50.98	22 51 35.8	20 11.2	0.095857	0 59	3 51
7	16 6 7.72	5 49.12	23 11 47.0	18 59.4	0.090979	1 1	3 49
8	16 11 56.84	5 46.80	23 30 46.4	17 46.0	0.085841	1 3	3 47
9	16 17 43.64	+5 43.95	23 48 32.4	−16 30.8	0.080432	1 5	3 44
10	16 23 27.59	5 40.51	−24 5 3.2	15 13.7	0.074741	1 7	3 42
11	16 29 8.10	5 36.39	24 20 16.9	13 54.9	0.068755	1 8	3 40
12	16 34 44.49	5 31.46	24 34 11.8	12 34.3	0.062461	1 10	3 39
13	16 40 15.95	5 25.62	24 46 46.1	11 11.9	0.055847	1 12	3 37
14	16 45 41.57	+5 18.76	24 57 58.0	− 9 47.7	0.048901	1 13	3 36
15	16 51 0.33	5 10.72	−25 7 45.7	8 21.8	0.041609	1 14	3 34
16	16 56 11.05	5 1.35	25 16 7.5	6 54.1	0.033958	1 16	3 33
17	17 1 12.40	4 50.45	25 23 1.6	5 24.7	0.025936	1 17	3 32
18	17 6 2.85	4 37.85	25 28 26.3	3 53.6	0.017534	1 18	3 32
19	17 10 40.70	+4 23.32	25 32 19.9	− 2 21.0	0.008743	1 18	3 31
20	17 15 4.02	4 6.63	−25 34 40.9	− 0 46.8	9.999557	1 19	3 31
21	17 19 10.65	3 47.53	25 35 27.7	+ 0 49.2	9.989975	1 19	3 31
22	17 22 58.18	3 25.76	25 34 38.5	2 26.7	9.980001	1 19	3 31
23	17 26 23.94	3 1.08	25 32 11.8	4 5.9	9.969647	1 18	3 31
24	17 29 25.02	+2 33.25	25 28 5.9	+ 5 46.9	9.958935	1 17	3 32
25	17 31 58.27	2 2.06	−25 22 19.0	7 30.0	9.947899	1 16	3 32
26	17 34 0.33	1 27.38	25 14 49.0	9 15.2	9.936589	1 14	3 33
27	17 35 27.71	0 49.21	25 5 33.8	11 2.8	9.925076	1 11	3 35
28	17 36 16.92	+0 7.71	24 54 31.0	12 53.1	9.913452	1 8	3 36
29	17 36 24.63	−0 36.75	24 41 37.9	+14 45.9	9.901838	1 5	3 38
30	17 35 47.88	1 23.46	−24 26 52.0	16 40.8	9.890386	1 0	3 40
Dez. 1	17 34 24.42	2 11.37	24 10 11.2	18 36.7	9.879281	0 55	3 42
2	17 32 13.05	2 59.05	23 51 34.5	20 31.3	9.868739	0 49	3 44
3	17 29 14.00	3 44.63	23 31 3.2	22 21.0	9.859006	0 42	3 47
4	17 25 29.37	−4 25.95	23 8 42.2	+24 0.5	9.850346	0 34	3 49
5	17 21 3.42	5 0.75	−22 44 41.7	25 23.0	9.843028	0 26	3 52
6	17 16 2.67	5 26.82	22 19 18.7	26 20.4	9.837307	0 17	3 55
7	17 10 35.85	5 42.44	21 52 58.3	26 44.7	9.833401	0 7	3 58
8	17 4 53.41	5 46.52	21 26 13.6	26 29.4	9.831467	23 58	4 1
9	16 59 6.89		20 59 44.2		9.831586	23 48	4 4

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	17 4 53.41	−5 46.52	−21 26 13.6	+26 29.4	9.831467	23 58	4 1
9	16 59 6.89	5 38.87	20 59 44.2	25 30.3	9.831586	23 48	4 4
10	16 53 28.02	5 20.23	20 34 13.9	23 47.2	9.833748	23 38	4 7
11	16 48 7.79	4 52.05	20 10 26.7	21 24.1	9.837858	23 29	4 10
12	16 43 15.74	−4 16.34	19 49 2.6	+18 28.1	9.843747	23 20	4 12
13	16 38 59.40	3 35.34	−19 30 34.5	15 8.6	9.851188	23 12	4 14
14	16 35 24.06	2 51.22	19 15 25.9	11 36.2	9.859922	23 4	4 16
15	16 32 32.84	2 5.90	19 3 49.7	8 0.3	9.869680	22 58	4 17
16	16 30 26.94	1 20.95	18 55 49.4	4 29.5	9.880199	22 52	4 18
17	16 29 5.99	−0 37.54	18 51 19.9	+ 1 10.2	9.891240	22 46	4 19
18	16 28 28.45	+0 3.55	−18 50 9.7	− 1 52.8	9.902592	22 42	4 19
19	16 28 32.00	0 41.82	18 52 2.5	4 36.8	9.914077	22 38	4 18
20	16 29 13.82	1 17.06	18 56 39.3	7 0.6	9.925549	22 35	4 18
21	16 30 30.88	1 49.22	19 3 39.9	9 3.7	9.936892	22 32	4 17
22	16 32 20.10	+2 18.37	19 12 43.6	−10 46.7	9.948019	22 30	4 16
23	16 34 38.47	2 44.68	−19 23 30.3	12 10.7	9.958864	22 28	4 15
24	16 37 23.15	3 8.35	19 35 41.0	13 17.1	9.969379	22 27	4 14
25	16 40 31.50	3 29.61	19 48 58.1	14 7.3	9.979533	22 26	4 13
26	16 44 1.11	3 48.70	20 3 5.4	14 42.9	9.989307	22 26	4 11
27	16 47 49.81	+4 5.83	20 17 48.3	−15 5.4	9.998690	22 26	4 9
28	16 51 55.64	4 21.22	−20 32 53.7	15 16.2	0.007680	22 26	4 7
29	16 56 16.86	4 35.06	20 48 9.9	15 16.7	0.016278	22 26	4 6
30	17 0 51.92	4 47.52	21 3 26.6	15 7.9	0.024490	22 27	4 4
31	17 5 39.44	4 58.77	21 18 34.5	14 50.8	0.032326	22 28	4 2
32	17 10 38.21	+5 8.95	21 33 25.3	−14 26.6	0.039796	22 29	4 1
33	17 15 47.16		−21 47 51.9		0.046913	22 30	3 59

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 1	15 37 46.13	+4 43.48	−16 48 6.1	−17 5.3	9.978161	20 59	4 31
2	15 42 29.61	4 44.83	17 5 11.4	16 44.6	9.981411	21 0	4 30
3	15 47 14.44	4 46.20	17 21 56.0	16 23.0	9.984629	21 0	4 28
4	15 52 0.64	4 47.55	17 38 19.0	16 0.6	9.987815	21 1	4 26
5	15 56 48.19	+4 48.88	17 54 19.6	−15 37.6	9.990970	21 2	4 25
6	16 1 37.07	4 50.21	−18 9 57.2	15 13.7	9.994093	21 3	4 23
7	16 6 27.28	4 51.53	18 25 10.9	14 48.9	9.997186	21 4	4 21
8	16 11 18.81	4 52.81	18 39 59.8	14 23.5	0.000247	21 5	4 20
9	16 16 11.62	4 54.08	18 54 23.3	13 57.2	0.003278	21 6	4 18
10	16 21 5.70	+4 55.33	19 8 20.5	−13 30.2	0.006279	21 7	4 17
11	16 26 1.03	4 56.54	−19 21 50.7	13 2.5	0.009250	21 8	4 15
12	16 30 57.57	4 57.73	19 34 53.2	12 34.0	0.012191	21 9	4 14
13	16 35 55.30	4 58.89	19 47 27.2	12 4.9	0.015102	21 10	4 12
14	16 40 54.19	5 0.01	19 59 32.1	11 35.1	0.017984	21 11	4 11
15	16 45 54.20	+5 1.11	20 11 7.2	−11 4.6	0.020838	21 12	4 10
16	16 50 55.31	5 2.17	−20 22 11.8	10 33.5	0.023663	21 13	4 9
17	16 55 57.48	5 3.18	20 32 45.3	10 1.8	0.026460	21 14	4 7
18	17 1 0.66	5 4.16	20 42 47.1	9 29.4	0.029229	21 15	4 6
19	17 6 4.82	5 5.10	20 52 16.5	8 56.6	0.031970	21 16	4 5
20	17 11 9.92	+5 6.00	21 1 13.1	− 8 23.2	0.034685	21 17	4 4
21	17 16 15.92	5 6.85	−21 9 36.3	7 49.2	0.037373	21 18	4 3
22	17 21 22.77	5 7.66	21 17 25.5	7 14.8	0.040035	21 20	4 2
23	17 26 30.43	5 8.43	21 24 40.3	6 40.0	0.042671	21 21	4 2
24	17 31 38.86	5 9.14	21 31 20.3	6 4.7	0.045282	21 22	4 1
25	17 36 48.00	+5 9.81	21 37 25.0	− 5 29.0	0.047868	21 23	4 0
26	17 41 57.81	5 10.44	−21 42 54.0	4 53.0	0.050429	21 24	4 0
27	17 47 8.25	5 11.01	21 47 47.0	4 16.5	0.052965	21 26	3 59
28	17 52 19.26	5 11.54	21 52 3.5	3 39.8	0.055478	21 27	3 58
29	17 57 30.80	5 12.02	21 55 43.3	3 2.8	0.058967	21 28	3 58
30	18 2 42.82	+5 12.46	21 58 46.1	− 2 25.5	0.060433	21 29	3 58
31	18 7 55.28	5 12.84	−22 1 11.6	1 47.9	0.062876	21 31	3 57
Febr. 1	18 13 8.12	5 13.17	22 2 59.5	1 10.2	0.065297	21 32	3 57
2	18 18 21.29	5 13.46	22 4 9.7	− 0 32.2	0.067695	21 33	3 57
3	18 23 34.75	5 13.69	22 4 41.9	+ 0 5.9	0.070070	21 34	3 57
4	18 28 48.44	+5 13.87	22 4 36.0	+ 0 44.1	0.072424	21 36	3 57
5	18 34 2.31	5 13.99	−22 3 51.9	1 22.5	0.074756	21 37	3 57
6	18 39 16.30	5 14.06	22 2 29.4	2 0.9	0.077066	21 38	3 57
7	18 44 30.36	5 14.08	22 0 28.5	2 39.3	0.079354	21 40	3 57
8	18 49 44.44	5 14.05	21 57 49.2	3 17.9	0.081620	21 41	3 58
9	18 54 58.49		21 54 31.3		0.083865	21 42	3 58

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Febr. 8	18 49 44.44	+5 14.05	−21 57 49.2	+ 3 17.9	0.081620	21 41	3 58
9	18 54 58.49	5 13.95	21 54 31.3	3 56.3	0.083865	21 42	3 58
10	19 0 12.44	5 13.80	21 50 35.0	4 34.7	0.086089	21 44	3 59
11	19 5 26.24	5 13.59	21 46 0.3	5 13.1	0.088292	21 45	3 59
12	19 10 39.83	+5 13.33	21 40 47.2	+ 5 51.3	0.090473	21 46	4 0
13	19 15 53.16	5 13.02	−21 34 55.9	6 29.2	0.092634	21 47	4 0
14	19 21 6.18	5 12.66	21 28 26.7	7 7.1	0.094774	21 49	4 1
15	19 26 18.84	5 12.25	21 21 19.6	7 44.8	0.096894	21 50	4 2
16	19 31 31.09	5 11.78	21 13 34.8	8 22.2	0.098993	21 51	4 3
17	19 36 42.87	+5 11.26	21 5 12.6	+ 8 59.3	0.101073	21 52	4 4
18	19 41 54.13	5 10.71	−20 56 13.3	9 36.2	0.103133	21 54	4 5
19	19 47 4.84	5 10.12	20 46 37.1	10 12.7	0.105173	21 55	4 6
20	19 52 14.96	5 9.48	20 36 24.4	10 48.8	0.107193	21 56	4 7
21	19 57 24.44	5 8.80	20 25 35.6	11 24.6	0.109195	21 57	4 8
22	20 2 33.24	+5 8.08	20 14 11.0	+12 0.0	0.111178	21 59	4 10
23	20 7 41.32	5 7.33	−20 2 11.0	12 35.0	0.113142	22 0	4 11
24	20 12 48.65	5 6.54	19 49 36.0	13 9.5	0.115088	22 1	4 12
25	20 17 55.19	5 5.73	19 36 26.5	13 43.6	0.117016	22 2	4 14
26	20 23 0.92	5 4.90	19 22 42.9	14 17.2	0.118926	22 3	4 15
27	20 28 5.82	+5 4.05	19 8 25.7	+14 50.3	0.120819	22 4	4 17
28	20 33 9.87	5 3.18	−18 53 35.4	15 23.0	0.122694	22 6	4 18
29	20 38 13.05	5 2.28	18 38 12.4	15 55.1	0.124552	22 7	4 20
März 1	20 43 15.33	5 1.36	18 22 17.3	16 26.7	0.126393	22 8	4 22
2	20 48 16.69	5 0.44	18 5 50.6	16 57.8	0.128217	22 9	4 23
3	20 53 17.13	+4 59.51	17 48 52.8	+17 28.3	0.130025	22 10	4 25
4	20 58 16.64	4 58.57	−17 31 24.5	17 58.3	0.131816	22 11	4 27
5	21 3 15.21	4 57.61	17 13 26.2	18 27.7	0.133590	22 12	4 29
6	21 8 12.82	4 56.65	16 54 58.5	18 56.5	0.135348	22 13	4 31
7	21 13 9.47	4 55.68	16 36 2.0	19 24.6	0.137089	22 14	4 33
8	21 18 5.15	+4 54.72	16 16 37.4	+19 52.2	0.138814	22 15	4 35
9	21 22 59.87	4 53.74	−15 56 45.2	20 19.2	0.140522	22 16	4 37
10	21 27 53.61	4 52.77	15 36 26.0	20 45.6	0.142214	22 17	4 39
11	21 32 46.38	4 51.80	15 15 40.4	21 11.2	0.143890	22 18	4 41
12	21 37 38.18	4 50.83	14 54 29.2	21 36.2	0.145549	22 19	4 43
13	21 42 29.01	+4 49.86	14 32 53.0	+22 0.6	0.147192	22 20	4 45
14	21 47 18.87	4 48.91	−14 10 52.4	22 24.2	0.148819	22 21	4 47
15	21 52 7.78	4 47.96	13 48 28.2	22 47.1	0.150430	22 21	4 49
16	21 56 55.74	4 47.02	13 25 41.1	23 9.4	0.152024	22 22	4 51
17	22 1 42.76	4 46.09	13 2 31.7	23 31.1	0.153602	22 23	4 54
18	22 6 28.85		12 39 0.6		0.155165	22 24	4 56

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	22 1 42.76	+4 46.09	−13 2 31.7	+23 31.1	0.153602	22 23	4 54
18	22 6 28.85	4 45.17	12 39 0.6	23 51.9	0.155165	22 24	4 56
19	22 11 14.02	4 44.26	12 15 8.7	24 12.1	0.156712	22 25	4 58
20	22 15 58.28	4 43.38	11 50 56.6	24 31.6	0.158243	22 26	5 0
21	22 20 41.66	+4 42.52	11 26 25.0	+24 50.4	0.159759	22 26	5 3
22	22 25 24.18	4 41.67	−11 1 34.6	25 8.4	0.161259	22 27	5 5
23	22 30 5.85	4 40.85	10 36 26.2	25 25.8	0.162745	22 28	5 7
24	22 34 46.70	4 40.05	10 11 0.4	25 42.5	0.164215	22 29	5 10
25	22 39 26.75	4 39.27	9 45 17.9	25 58.5	0.165670	22 29	5 12
26	22 44 6.02	+4 38.52	9 19 19.4	+26 13.7	0.167111	22 30	5 14
27	22 48 44.54	4 37.80	− 8 53 5.7	26 28.3	0.168537	22 31	5 17
28	22 53 22.34	4 37.12	8 26 37.4	26 42.3	0.169948	22 31	5 19
29	22 57 59.46	4 36.46	7 59 55.1	26 55.5	0.171345	22 32	5 21
30	23 2 35.92	4 35.84	7 32 59.6	27 8.0	0.172728	22 33	5 24
31	23 7 11.76	+4 35.24	7 5 51.6	+27 19.9	0.174097	22 33	5 26
April 1	23 11 47.00	4 34.69	− 6 38 31.7	27 31.2	0.175452	22 34	5 29
2	23 16 21.69	4 34.17	6 11 0.5	27 41.8	0.176793	22 35	5 31
3	23 20 55.86	4 33.68	5 43 18.7	27 51.6	0.178119	22 35	5 34
4	23 25 29.54	4 33.24	5 15 27.1	28 0.8	0.179431	22 36	5 36
5	23 30 2.78	+4 32.82	4 47 26.3	+28 9.3	0.180729	22 37	5 39
6	23 34 35.60	4 32.44	− 4 19 17.0	28 17.1	0.182013	22 37	5 41
7	23 39 8.04	4 32.10	3 50 59.9	28 24.3	0.183283	22 38	5 44
8	23 43 40.14	4 31.78	3 22 35.6	28 30.7	0.184539	22 38	5 46
9	23 48 11.92	4 31.51	2 54 4.9	28 36.4	0.185780	22 39	5 49
10	23 52 43.43	+4 31.27	2 25 28.5	+28 41.5	0.187007	22 39	5 51
11	23 57 14.70	4 31.08	− 1 56 47.0	28 45.9	0.188219	22 40	5 54
12	0 1 45.78	4 30.93	1 28 1.1	28 49.5	0.189417	22 41	5 56
13	0 6 16.71	4 30.80	0 59 11.6	28 52.5	0.190601	22 41	5 59
14	0 10 47.51	4 30.70	0 30 19.1	28 54.7	0.191771	22 42	6 1
15	0 15 18.21	+4 30.64	− 0 1 24.4	+28 56.2	0.192926	22 42	6 4
16	0 19 48.85	4 30.63	+ 0 27 31.8	28 57.0	0.194066	22 43	6 6
17	0 24 19.48	4 30.65	0 56 28.8	28 57.2	0.195192	22 43	6 9
18	0 28 50.13	4 30.71	1 25 26.0	28 56.6	0.196304	22 44	6 11
19	0 33 20.84	4 30.80	1 54 22.6	28 55.3	0.197402	22 45	6 14
20	0 37 51.64	+4 30.93	2 23 17.9	+28 53.3	0.198485	22 45	6 16
21	0 42 22.57	4 31.10	+ 2 52 11.2	28 50.6	0.199554	22 46	6 19
22	0 46 53.67	4 31.31	3 21 1.8	28 47.2	0.200610	22 46	6 21
23	0 51 24.98	4 31.56	3 49 49.0	28 43.1	0.201651	22 47	6 24
24	0 55 56.54	4 31.84	4 18 32.1	28 38.3	0.202678	22 48	6 26
25	1 0 28.38		4 47 10.4		0.203691	22 48	6 29

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	0 55 56.54	+4 31.84	+ 4 18 32.1	+28 38.3	0.202678	22 48	6 26
25	1 0 28.38	4 32.17	4 47 10.4	28 32.9	0.203691	22 48	6 29
26	1 5 0.55	4 32.53	5 15 43.3	28 26.7	0.204691	22 49	6 31
27	1 9 33.08	4 32.93	5 44 10.0	28 19.9	0.205677	22 49	6 34
28	1 14 6.01	+4 33.38	6 12 29.9	+28 12.5	0.206649	22 50	6 36
29	1 18 39.39	4 33.86	+ 6 40 42.4	28 4.3	0.207608	22 51	6 39
30	1 23 13.25	4 34.38	7 8 46.7	27 55.4	0.208554	22 51	6 41
Mai 1	1 27 47.63	4 34.94	7 36 42.1	27 45.8	0.209485	22 52	6 44
2	1 32 22.57	4 35.54	8 4 27.9	27 35.5	0.210403	22 52	6 46
3	1 36 58.11	+4 36.17	8 32 3.4	+27 24.6	0.211308	22 53	6 49
4	1 41 34.28	4 36.84	+ 8 59 28.0	27 12.9	0.212198	22 54	6 51
5	1 46 11.12	4 37.54	9 26 40.9	27 0.6	0.213075	22 54	6 54
6	1 50 48.66	4 38.27	9 53 41.5	26 47.5	0.213938	22 55	6 56
7	1 55 26.93	4 39.05	10 20 29.0	26 33.7	0.214787	22 56	6 59
8	2 0 5.98	+4 39.85	10 47 2.7	+26 19.2	0.215622	22 56	7 1
9	2 4 45.83	4 40.67	+11 13 21.9	26 4.0	0.216444	22 57	7 4
10	2 9 26.50	4 41.52	11 39 25.9	25 48.0	0.217250	22 58	7 6
11	2 14 8.02	4 42.41	12 5 13.9	25 31.3	0.218043	22 59	7 9
12	2 18 50.43	4 43.32	12 30 45.2	25 13.8	0.218822	22 59	7 11
13	2 23 33.75	+4 44.26	12 55 59.0	+24 55.7	0.219586	23 0	7 13
14	2 28 18.01	4 45.22	+13 20 54.7	24 36.8	0.220336	23 1	7 16
15	2 33 3.23	4 46.20	13 45 31.5	24 17.2	0.221071	23 2	7 18
16	2 37 49.43	4 47.19	14 9 48.7	23 56.8	0.221792	23 3	7 21
17	2 42 36.62	4 48.20	14 33 45.5	23 35.5	0.222498	23 3	7 23
18	2 47 24.82	+4 49.23	14 57 21.0	+23 13.6	0.223190	23 4	7 26
19	2 52 14.05	4 50.28	+15 20 34.6	22 51.1	0.223867	23 5	7 28
20	2 57 4.33	4 51.34	15 43 25.7	22 27.8	0.224530	23 6	7 30
21	3 1 55.67	4 52.41	16 5 53.5	22 3.7	0.225179	23 7	7 33
22	3 6 48.08	4 53.49	16 27 57.2	21 38.9	0.225813	23 8	7 35
23	3 11 41.57	+4 54.58	16 49 36.1	+21 13.4	0.226433	23 9	7 37
24	3 16 36.15	4 55.69	+17 10 49.5	20 47.3	0.227038	23 10	7 39
25	3 21 31.84	4 56.79	17 31 36.8	20 20.4	0.227630	23 11	7 41
26	3 26 28.63	4 57.91	17 51 57.2	19 52.9	0.228207	23 12	7 43
27	3 31 26.54	4 59.03	18 11 50.1	19 24.7	0.228771	23 13	7 46
28	3 36 25.57	+5 0.14	18 31 14.8	+18 55.7	0.229320	23 14	7 48
29	3 41 25.71	5 1.26	+18 50 10.5	18 26.1	0.229856	23 15	7 50
30	3 46 26.97	5 2.37	19 8 36.6	17 55.8	0.230377	23 16	7 52
31	3 51 29.34	5 3.48	19 26 32.4	17 25.1	0.230884	23 17	7 54
Juni 1	3 56 32.82	5 4.59	19 43 57.5	16 53.5	0.231377	23 18	7 56
2	4 1 37.41		20 0 51.0		0.231856	23 19	7 58

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juni 1	3 56 32.82	+5 4.59	+19 43 57.5	+16 53.5	0.231377	23 18	7 56
2	4 1 37.41	5 5.68	20 0 51.0	16 21.2	0.231856	23 19	7 58
3	4 6 43.09	5 6.75	20 17 12.2	15 48.4	0.232321	23 21	8 0
4	4 11 49.84	5 7.81	20 33 0.6	15 14.9	0.232771	23 22	8 2
5	4 16 57.65	+5 8.86	20 48 15.5	+14 40.9	0.233207	23 23	8 3
6	4 22 6.51	5 9.89	+21 2 56.4	14 6.2	0.233629	23 24	8 5
7	4 27 16.40	5 10.89	21 17 2.6	13 31.0	0.234037	23 25	8 7
8	4 32 27.29	5 11.86	21 30 33.6	12 55.2	0.234429	23 27	8 8
9	4 37 39.15	5 12.80	21 43 28.8	12 18.9	0.234807	23 28	8 10
10	4 42 51.95	+5 13.71	21 55 47.7	+11 41.9	0.235171	23 29	8 11
11	4 48 5.66	5 14.59	+22 7 29.6	11 4.5	0.235519	23 30	8 13
12	4 53 20.25	5 15.42	22 18 34.1	10 26.5	0.235853	23 32	8 14
13	4 58 35.67	5 16.22	22 29 0.6	9 48.2	0.236172	23 33	8 15
14	5 3 51.89	5 16.98	22 38 48.8	9 9.4	0.236476	23 34	8 17
15	5 9 8.87	+5 17.69	22 47 58.2	+ 8 30.1	0.236765	23 36	8 18
16	5 14 26.56	5 18.35	+22 56 28.3	7 50.4	0.237038	23 37	8 19
17	5 19 44.91	5 18.96	23 4 18.7	7 10.4	0.237297	23 38	8 20
18	5 25 3.87	5 19.52	23 11 29.1	6 30.0	0.237541	23 40	8 21
19	5 30 23.39	5 20.04	23 17 59.1	5 49.3	0.237770	23 41	8 21
20	5 35 43.43	+5 20.50	23 23 48.4	+ 5 8.3	0.237984	23 43	8 22
21	5 41 3.93	5 20.90	+23 28 56.7	4 27.1	0.238183	23 44	8 23
22	5 46 24.83	5 21.25	23 33 23.8	3 45.7	0.238367	23 45	8 23
23	5 51 46.08	5 21.54	23 37 9.5	3 4.0	0.238537	23 47	8 24
24	5 57 7.62	5 21.79	23 40 13.5	2 22.1	0.238692	23 48	8 24
25	6 2 29.41	+5 21.99	23 42 35.6	+ 1 40.2	0.238832	23 50	8 25
26	6 7 51.40	5 22.12	+23 44 15.8	0 58.2	0.238958	23 51	8 25
27	6 13 13.52	5 22.19	23 45 14.0	+ 0 15.9	0.239070	23 52	8 25
28	6 18 35.71	5 22.21	23 45 29.9	− 0 26.3	0.239167	23 54	8 25
29	6 23 57.92	5 22.18	23 45 3.6	1 8.5	0.239250	23 55	8 25
30	6 29 20.10	+5 22.09	23 43 55.1	− 1 50.8	0.239318	23 57	8 25
Juli 1	6 34 42.19	5 21.95	+23 42 4.3	2 33.0	0.239371	23 58	8 25
2	6 40 4.14	5 21.74	23 39 31.3	3 15.1	0.239410	0 0	8 24
3	6 45 25.88	5 21.48	23 36 16.2	3 57.2	0.239435	0 1	8 24
4	6 50 47.36	5 21.17	23 32 19.0	4 39.1	0.239445	0 2	8 23
5	6 56 8.53	+5 20.80	23 27 39.9	− 5 20.8	0.239441	0 4	8 23
6	7 1 29.33	5 20.38	+23 22 19.1	6 2.4	0.239422	0 5	8 22
7	7 6 49.71	5 19.91	23 16 16.7	6 43.9	0.239388	0 7	8 21
8	7 12 9.62	5 19.39	23 9 32.8	7 25.0	0.239339	0 8	8 20
9	7 17 29.01	5 18.81	23 2 7.8	8 5.8	0.239275	0 9	8 19
10	7 22 47.82		22 54 2.0		0.239197	0 11	8 18

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juli 9	7 17 29.01	+5 18.81	+23 2 7.8	−8 5.8	0.239275	0 9	8 19
10	7 22 47.82	5 18.18	22 54 2.0	8 46.4	0.239197	0 11	8 18
11	7 28 6.00	5 17.51	22 45 15.6	9 26.7	0.239104	0 12	8 17
12	7 33 23.51	5 16.79	22 35 48.9	10 6.6	0.238995	0 13	8 16
13	7 38 40.30	+5 16.02	22 25 42.3	−10 46.1	0.238871	0 15	8 15
14	7 43 56.32	5 15.20	+22 14 56.2	11 25.2	0.238733	0 16	8 14
15	7 49 11.52	5 14.35	22 3 31.0	12 3.8	0.238580	0 17	8 12
16	7 54 25.87	5 13.46	21 51 27.2	12 42.0	0.238412	0 19	8 11
17	7 59 39.33	5 12.53	21 38 45.2	13 19.8	0.238228	0 20	8 9
18	8 4 51.86	+5 11.56	21 25 25.4	−13 57.0	0.238030	0 21	8 8
19	8 10 3.42	5 10.56	+21 11 28.4	14 33.6	0.237816	0 23	8 6
20	8 15 13.98	5 9.54	20 56 54.8	15 9.8	0.237588	0 24	8 4
21	8 20 23.52	5 8.49	20 41 45.0	15 45.3	0.237345	0 25	8 3
22	8 25 32.01	5 7.42	20 25 59.7	16 20.4	0.237087	0 26	8 1
23	8 30 39.43	+5 6.32	20 9 39.3	−16 54.8	0.236815	0 27	7 59
24	8 35 45.75	5 5.22	+19 52 44.5	17 28.6	0.236528	0 29	7 57
25	8 40 50.97	5 4.10	19 35 15.9	18 1.9	0.236227	0 30	7 55
26	8 45 55.07	5 2.97	19 17 14.0	18 34.5	0.235912	0 31	7 53
27	8 50 58.04	5 1.83	18 58 39.5	19 6.4	0.235582	0 32	7 51
28	8 55 59.87	+5 0.68	18 39 33.1	−19 37.7	0.235238	0 33	7 49
29	9 1 0.55	4 59.53	+18 19 55.4	20 8.4	0.234880	0 34	7 47
30	9 6 0.08	4 58.37	17 59 47.0	20 38.4	0.234507	0 35	7 44
31	9 10 58.45	4 57.23	17 39 8.6	21 7.8	0.234120	0 36	7 42
Aug. 1	9 15 55.68	4 56.08	17 18 0.8	21 36.5	0.233720	0 37	7 40
2	9 20 51.76	+4 54.93	16 56 24.3	−22 4.4	0.233306	0 38	7 38
3	9 25 46.69	4 53.79	+16 34 19.9	22 31.7	0.232877	0 39	7 35
4	9 30 40.48	4 52.67	16 11 48.2	22 58.4	0.232434	0 40	7 33
5	9 35 33.15	4 51.55	15 48 49.8	23 24.3	0.231977	0 41	7 31
6	9 40 24.70	4 50.45	15 25 25.5	23 49.5	0.231505	0 42	7 28
7	9 45 15.15	+4 49.35	15 1 36.0	−24 14.0	0.231019	0 43	7 26
8	9 50 4.50	4 48.28	+14 37 22.0	24 37.9	0.230519	0 44	7 24
9	9 54 52.78	4 47.22	14 12 44.1	25 0.9	0.230005	0 45	7 21
10	9 59 40.00	4 46.19	13 47 43.2	25 23.2	0.229477	0 45	7 19
11	10 4 26.19	4 45.16	13 22 20.0	25 44.8	0.228934	0 46	7 16
12	10 9 11.35	+4 44.15	12 56 35.2	−26 5.6	0.228376	0 47	7 14
13	10 13 55.50	4 43.17	+12 30 29.6	26 25.8	0.227804	0 48	7 11
14	10 18 38.67	4 42.21	12 4 3.8	26 45.1	0.227217	0 49	7 8
15	10 23 20.88	4 41.27	11 37 18.7	27 3.7	0.226616	0 50	7 6
16	10 28 2.15	4 40.36	11 10 15.0	27 21.5	0.226000	0 50	7 3
17	10 32 42.51		10 42 53.5		0.225370	0 51	7 1

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	10 28 2.15	+4 40.36	+11 10 15.0	−27 21.5	0.226000	0 50	7 3
17	10 32 42.51	4 39.48	10 42 53.5	27 38.7	0.225370	0 51	7 1
18	10 37 21.99	4 38.62	10 15 14.8	27 55.0	0.224726	0 52	6 58
19	10 42 0.61	4 37.80	9 47 19.8	28 10.6	0.224068	0 52	6 56
20	10 46 38.41	+4 37.01	9 19 9.2	−28 25.5	0.223396	0 53	6 53
21	10 51 15.42	4 36.26	+ 8 50 43.7	28 39.7	0.222710	0 54	6 50
22	10 55 51.68	4 35.53	8 22 4.0	28 53.1	0.222010	0 54	6 48
23	11 0 27.21	4 34.85	7 53 10.9	29 5.8	0.221296	0 55	6 45
24	11 5 2.06	4 34.20	7 24 5.1	29 17.8	0.220568	0 56	6 43
25	11 9 36.26	+4 33.59	6 54 47.3	−29 29.1	0.219827	0 56	6 40
26	11 14 9.85	4 33.02	+ 6 25 18.2	29 39.6	0.219072	0 57	6 37
27	11 18 42.87	4 32.49	5 55 38.6	29 49.4	0.218304	0 57	6 35
28	11 23 15.36	4 32.00	5 25 49.2	29 58.6	0.217523	0 58	6 32
29	11 27 47.36	4 31.55	4 55 50.6	30 7.1	0.216728	0 59	6 29
30	11 32 18.91	+4 31.13	4 25 43.5	−30 14.8	0.215919	0 59	6 27
31	11 36 50.04	4 30.77	+ 3 55 28.7	30 21.7	0.215097	1 0	6 24
Sept. 1	11 41 20.81	4 30.45	3 25 7.0	30 28.0	0.214262	1 0	6 21
2	11 45 51.26	4 30.17	2 54 39.0	30 33.7	0.213414	1 1	6 19
3	11 50 21.43	4 29.93	2 24 5.3	30 38.5	0.212552	1 1	6 16
4	11 54 51.36	+4 29.74	1 53 26.8	−30 42.7	0.211676	1 2	6 13
5	11 59 21.10	4 29.58	+ 1 22 44.1	30 46.2	0.210787	1 3	6 11
6	12 3 50.68	4 29.47	0 51 57.9	30 48.9	0.209885	1 3	6 8
7	12 8 20.15	4 29.41	+ 0 21 9.0	30 50.9	0.208969	1 4	6 5
8	12 12 49.56	4 29.39	− 0 9 41.9	30 52.2	0.208039	1 4	6 3
9	12 17 18.95	+4 29.40	0 40 34.1	−30 52.8	0.207096	1 5	6 0
10	12 21 48.35	4 29.46	− 1 11 26.9	30 52.6	0.206139	1 5	5 57
11	12 26 17.81	4 29.55	1 42 19.5	30 51.6	0.205169	1 6	5 55
12	12 30 47.36	4 29.69	2 13 11.1	30 49.9	0.204184	1 6	5 52
13	12 35 17.05	4 29.87	2 44 1.0	30 47.5	0.203185	1 7	5 49
14	12 39 46.92	+4 30.09	3 14 48.5	−30 44.3	0.202172	1 8	5 47
15	12 44 17.01	4 30.36	− 3 45 32.8	30 40.4	0.201146	1 8	5 44
16	12 48 47.37	4 30.66	4 16 13.2	30 35.7	0.200106	1 9	5 41
17	12 53 18.03	4 30.99	4 46 48.9	30 30.3	0.199052	1 9	5 39
18	12 57 49.02	4 31.37	5 17 19.2	30 24.1	0.197985	1 10	5 36
19	13 2 20.39	+4 31.79	5 47 43.3	−30 17.1	0.196904	1 10	5 33
20	13 6 52.18	4 32.26	− 6 18 0.4	30 9.5	0.195810	1 11	5 31
21	13 11 24.44	4 32.77	6 48 9.9	30 1.1	0.194702	1 12	5 28
22	13 15 57.21	4 33.32	7 18 11.0	29 52.1	0.193581	1 12	5 25
23	13 20 30.53	4 33.90	7 48 3.1	29 42.3	0.192446	1 13	5 23
24	13 25 4.43		8 17 45.4		0.191298	1 13	5 20

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	13 20 30.53	+4 33.90	− 7 48 3.1	−29 42.3	0.192446	1 13	5 23
24	13 25 4.43	4 34.53	8 17 45.4	29 31.6	0.191298	1 13	5 20
25	13 29 38.96	4 35.20	8 47 17.0	29 20.3	0.190137	1 14	5 17
26	13 34 14.16	4 35.90	9 16 37.3	29 8.2	0.188963	1 15	5 15
27	13 38 50.06	+4 36.65	9 45 45.5	−28 55.3	0.187776	1 15	5 12
28	13 43 26.71	4 37.43	−10 14 40.8	28 41.8	0.186575	1 16	5 9
29	13 48 4.14	4 38.25	10 43 22.6	28 27.4	0.185362	1 17	5 7
30	13 52 42.39	4 39.11	11 11 50.0	28 12.3	0.184135	1 17	5 4
Okt. 1	13 57 21.50	4 40.01	11 40 2.3	27 56.5	0.182895	1 18	5 1
2	14 2 1.51	+4 40.93	12 7 58.8	−27 39.9	0.181642	1 19	4 59
3	14 6 42.44	4 41.89	−12 35 38.7	27 22.5	0.180375	1 20	4 56
4	14 11 24.33	4 42.88	13 3 1.2	27 4.4	0.179095	1 20	4 54
5	14 16 7.21	4 43.90	13 30 5.6	26 45.5	0.177801	1 21	4 51
6	14 20 51.11	4 44.95	13 56 51.1	26 25.8	0.176494	1 22	4 48
7	14 25 36.06	+4 46.03	14 23 16.9	−26 5.3	0.175173	1 23	4 46
8	14 30 22.09	4 47.12	−14 49 22.2	25 44.0	0.173839	1 24	4 43
9	14 35 9.21	4 48.23	15 15 6.2	25 21.8	0.172490	1 24	4 41
10	14 39 57.44	4 49.38	15 40 28.0	24 58.9	0.171127	1 25	4 38
11	14 44 46.82	4 50.53	16 5 26.9	24 35.2	0.169750	1 26	4 36
12	14 49 37.35	+4 51.69	16 30 2.1	−24 10.8	0.168359	1 27	4 33
13	14 54 29.04	4 52.87	−16 54 12.9	23 45.5	0.166953	1 28	4 31
14	14 59 21.91	4 54.05	17 17 58.4	23 19.4	0.165533	1 29	4 28
15	15 4 15.96	4 55.25	17 41 17.8	22 52.5	0.164098	1 30	4 26
16	15 9 11.21	4 56.45	18 4 10.3	22 24.8	0.162649	1 31	4 24
17	15 14 7.66	+4 57.65	18 26 35.1	−21 56.3	0.161186	1 32	4 21
18	15 19 5.31	4 58.87	−18 48 31.4	21 27.1	0.159708	1 33	4 19
19	15 24 4.18	5 0.08	19 9 58.5	20 57.2	0.158216	1 34	4 17
20	15 29 4.26	5 1.29	19 30 55.7	20 26.5	0.156709	1 35	4 14
21	15 34 5.55	5 2.49	19 51 22.2	19 55.0	0.155188	1 36	4 12
22	15 39 8.04	+5 3.69	20 11 17.2	−19 22.8	0.153653	1 37	4 10
23	15 44 11.73	5 4.88	−20 30 40.0	18 50.0	0.152103	1 38	4 8
24	15 49 16.61	5 6.06	20 49 30.0	18 16.3	0.150539	1 39	4 6
25	15 54 22.67	5 7.22	21 7 46.3	17 42.0	0.148960	1 41	4 4
26	15 59 29.89	5 8.36	21 25 28.3	17 7.0	0.147367	1 42	4 2
27	16 4 38.25	+5 9.49	21 42 35.3	−16 31.3	0.145760	1 43	4 0
28	16 9 47.74	5 10.60	−21 59 6.6	15 55.0	0.144138	1 44	3 58
29	16 14 58.34	5 11.69	22 15 1.6	15 18.1	0.142501	1 45	3 56
30	16 20 10.03	5 12.75	22 30 19.7	14 40.5	0.140850	1 47	3 54
31	16 25 22.78	5 13.78	22 45 0.2	14 2.3	0.139184	1 48	3 52
Nov. 1	16 30 36.56		22 59 2.5		0.137503	1 49	3 51

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Okt.	31	16 25 22.78	+5 13.78	−22 45 0.2	−14 2.3	0.139184	1 48	3 52
Nov.	1	16 30 36.56	5 14.77	22 59 2.5	13 23.5	0.137503	1 49	3 51
	2	16 35 51.33	5 15.74	23 12 26.0	12 44.1	0.135807	1 50	3 49
	3	16 41 7.07	5 16.66	23 25 10.1	12 4.2	0.134095	1 52	3 47
	4	16 46 23.73	+5 17.54	23 37 14.3	−11 23.8	0.132368	1 53	3 46
	5	16 51 41.27	5 18.37	−23 48 38.1	10 42.9	0.130626	1 54	3 44
	6	16 56 59.64	5 19.15	23 59 21.0	10 1.4	0.128868	1 56	3 43
	7	17 2 18.79	5 19.87	24 9 22.4	9 19.4	0.127093	1 57	3 42
	8	17 7 38.66	5 20.54	24 18 41.8	8 37.1	0.125302	1 59	3 41
	9	17 12 59.20	+5 21.16	24 27 18.9	−7 54.3	0.123495	2 0	3 40
	10	17 18 20.36	5 21.72	−24 35 13.2	7 11.2	0.121671	2 1	3 39
	11	17 23 42.08	5 22.20	24 42 24.4	6 27.7	0.119831	2 3	3 38
	12	17 29 4.28	5 22.63	24 48 52.1	5 43.9	0.117973	2 4	3 37
	13	17 34 26.91	5 22.98	24 54 36.0	4 59.9	0.116098	2 6	3 36
	14	17 39 49.89	+5 23.26	24 59 35.9	4 15.6	0.114206	2 7	3 35
	15	17 45 13.15	5 23.47	−25 3 51.5	3 31.0	0.112297	2 9	3 35
	16	17 50 36.62	5 23.62	25 7 22.5	2 46.3	0.110370	2 10	3 34
	17	17 56 0.24	5 23.70	25 10 8.8	2 1.6	0.108425	2 11	3 34
	18	18 1 23.94	5 23.70	25 12 10.4	1 16.7	0.106463	2 12	3 34
	19	18 6 47.64	+5 23.63	25 13 27.1	−0 31.8	0.104484	2 14	3 34
	20	18 12 11.27	5 23.49	−25 13 58.9	+0 13.2	0.102487	2 16	3 33
	21	18 17 34.76	5 23.28	25 13 45.7	0 58.1	0.100472	2 17	3 33
	22	18 22 58.04	5 23.00	25 12 47.6	1 43.0	0.098438	2 19	3 34
	23	18 28 21.04	5 22.64	25 11 4.6	2 27.9	0.096386	2 20	3 34
	24	18 33 43.68	+5 22.22	25 8 36.7	+3 12.6	0.094316	2 22	3 34
	25	18 39 5.90	5 21.74	−25 5 24.1	3 57.1	0.092228	2 23	3 35
	26	18 44 27.64	5 21.19	25 1 27.0	4 41.4	0.090122	2 24	3 35
	27	18 49 48.83	5 20.57	24 56 45.6	5 25.6	0.087997	2 26	3 36
	28	18 55 9.40	5 19.88	24 51 20.0	6 9.5	0.085853	2 27	3 36
	29	19 0 29.28	+5 19.14	24 45 10.5	+6 53.1	0.083691	2 29	3 37
	30	19 5 48.42	5 18.34	−24 38 17.4	7 36.4	0.081510	2 30	3 38
Dez.	1	19 11 6.76	5 17.48	24 30 41.0	8 19.4	0.079309	2 31	3 39
	2	19 16 24.24	5 16.56	24 22 21.6	9 2.0	0.077088	2 33	3 40
	3	19 21 40.80	5 15.58	24 13 19.6	9 44.2	0.074848	2 34	3 41
	4	19 26 56.38	+5 14.55	24 3 35.4	+10 26.0	0.072587	2 35	3 43
	5	19 32 10.93	5 13.46	−23 53 9.4	11 7.3	0.070306	2 37	3 44
	6	19 37 24.39	5 12.31	23 42 2.1	11 48.2	0.068004	2 38	3 45
	7	19 42 36.70	5 11.12	23 30 13.9	12 28.5	0.065680	2 39	3 47
	8	19 47 47.82	5 9.88	23 17 45.4	13 8.3	0.063334	2 40	3 48
	9	19 52 57.70		23 4 37.1		0.060967	2 42	3 50

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Dez. 8	19 47 47.82	+5 9.88	−23 17 45.4	+13 8.3	0.063334	2 40	3 48
9	19 52 57.70	5 8.59	23 4 37.1	13 47.5	0.060967	2 42	3 50
10	19 58 6.29	5 7.25	22 50 49.6	14 26.1	0.058577	2 43	3 52
11	20 3 13.54	5 5.87	22 36 23.5	15 4.1	0.056165	2 44	3 53
12	20 8 19.41	+5 4.46	22 21 19.4	+15 41.5	0.053730	2 45	3 55
13	20 13 23.87	5 3.00	−22 5 37.9	16 18.2	0.051272	2 46	3 57
14	20 18 26.87	5 1.51	21 49 19.7	16 54.2	0.048790	2 47	3 59
15	20 23 28.38	4 59.99	21 32 25.5	17 29.5	0.046285	2 49	4 1
16	20 28 28.37	4 58.44	21 14 56.0	18 4.1	0.043756	2 50	4 3
17	20 33 26.81	+4 56.87	20 56 51.9	+18 38.0	0.041202	2 51	4 5
18	20 38 23.68	4 55.27	−20 38 13.9	19 11.1	0.038624	2 52	4 7
19	20 43 18.95	4 53.65	20 19 2.8	19 43.5	0.036022	2 53	4 9
20	20 48 12.60	4 52.01	19 59 19.3	20 15.2	0.033395	2 54	4 11
21	20 53 4.61	4 50.37	19 39 4.1	20 46.0	0.030743	2 54	4 13
22	20 57 54.98	+4 48.71	19 18 18.1	+21 16.2	0.028066	2 55	4 16
23	21 2 43.69	4 47.04	−18 57 1.9	21 45.5	0.025363	2 56	4 18
24	21 7 30.73	4 45.37	18 35 16.4	22 14.1	0.022634	2 57	4 20
25	21 12 16.10	4 43.70	18 13 2.3	22 41.8	0.019880	2 58	4 23
26	21 16 59.80	4 42.02	17 50 20.5	23 8.8	0.017100	2 59	4 25
27	21 21 41.82	+4 40.36	17 27 11.7	+23 35.1	0.014293	2 59	4 27
28	21 26 22.18	4 38.70	−17 3 36.6	24 0.6	0.011459	3 0	4 30
29	21 31 0.88	4 37.05	16 39 36.0	24 25.3	0.008598	3 1	4 32
30	21 35 37.93	4 35.41	16 15 10.7	24 49.2	0.005709	3 2	4 35
31	21 40 13.34	4 33.76	15 50 21.5	25 12.4	0.002792	3 2	4 37
32	21 44 47.10	+4 32.13	15 25 9.1	+25 34.7	9.999847	3 3	4 40
33	21 49 19.23		−14 59 34.4		9.996874	3 3	4 42

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 1	3 25 36.92	+0 9.98	+21 0 35.7	+1 7.5	9.841730	8 47	8 5
2	3 25 46.90	0 13.11	21 1 43.2	1 16.2	9.846384	8 43	8 5
3	3 26 0.01	0 16.18	21 2 59.4	1 24.7	9.851050	8 39	8 5
4	3 26 16.19	0 19.21	21 4 24.1	1 33.1	9.855726	8 35	8 5
5	3 26 35.40	+0 22.17	21 5 57.2	+1 41.2	9.860409	8 32	8 5
6	3 26 57.57	0 25.10	+21 7 38.4	1 49.2	9.865098	8 28	8 6
7	3 27 22.67	0 27.98	21 9 27.6	1 57.1	9.869790	8 25	8 6
8	3 27 50.65	0 30.80	21 11 24.7	2 4.7	9.874484	8 21	8 6
9	3 28 21.45	0 33.57	21 13 29.4	2 12.2	9.879177	8 18	8 6
10	3 28 55.02	+0 36.30	21 15 41.6	+2 19.4	9.883868	8 14	8 7
11	3 29 31.32	0 38.98	+21 18 1.0	2 26.5	9.888555	8 11	8 7
12	3 30 10.30	0 41.62	21 20 27.5	2 33.4	9.893236	8 8	8 7
13	3 30 51.92	0 44.22	21 23 0.9	2 40.1	9.897910	8 5	8 7
14	3 31 36.14	0 46.76	21 25 41.0	2 46.7	9.902576	8 1	8 8
15	3 32 22.90	+0 49.26	21 28 27.7	+2 52.9	9.907231	7 58	8 8
16	3 33 12.16	0 51.71	+21 31 20.6	2 58.9	9.911875	7 55	8 8
17	3 34 3.87	0 54.13	21 34 19.5	3 4.8	9.916506	7 52	8 9
18	3 34 58.00	0 56.50	21 37 24.3	3 10.3	9.921122	7 49	8 9
19	3 35 54.50	0 58.81	21 40 34.6	3 15.7	9.925722	7 46	8 9
20	3 36 53.31	+1 1.08	21 43 50.3	+3 20.7	9.930305	7 43	8 10
21	3 37 54.39	1 3.30	+21 47 11.0	3 25.6	9.934871	7 40	8 10
22	3 38 57.69	1 5.49	21 50 36.6	3 30.1	9.939417	7 37	8 11
23	3 40 3.18	1 7.63	21 54 6.7	3 34.3	9.943943	7 34	8 11
24	3 41 10.81	1 9.71	21 57 41.0	3 38.4	9.948448	7 32	8 12
25	3 42 20.52	+1 11.74	22 1 19.4	+3 42.1	9.952931	7 29	8 12
26	3 43 32.26	1 13.73	+22 5 1.5	3 45.5	9.957392	7 26	8 12
27	3 44 45.99	1 15.68	22 8 47.0	3 48.7	9.961829	7 23	8 13
28	3 46 1.67	1 17.57	22 12 35.7	3 51.6	9.966242	7 21	8 13
29	3 47 19.24	1 19.43	22 16 27.3	3 54.2	9.970630	7 18	8 14
30	3 48 38.67	+1 21.23	22 20 21.5	+3 56.5	9.974993	7 15	8 14
31	3 49 59.90	1 22.99	+22 24 18.0	3 58.6	9.979330	7 13	8 15
Febr. 1	3 51 22.89	1 24.70	22 28 16.6	4 0.4	9.983641	7 10	8 15
2	3 52 47.59	1 26.38	22 32 17.0	4 1.9	9.987926	7 8	8 16
3	3 54 13.97	1 28.03	22 36 18.9	4 3.1	9.992184	7 5	8 16
4	3 55 42.00	+1 29.64	22 40 22.0	+4 4.2	9.996415	7 3	8 17
5	3 57 11.64	1 31.20	+22 44 26.2	4 5.0	0.000620	7 0	8 17
6	3 58 42.84	1 32.74	22 48 31.2	4 5.6	0.004799	6 58	8 18
7	4 0 15.58	1 34.26	22 52 36.8	4 5.9	0.008950	6 55	8 18
8	4 1 49.84	1 35.75	22 56 42.7	4 6.1	0.013075	6 53	8 19
9	4 3 25.59		23 0 48.8		0.017172	6 51	8 19

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Febr. 8	4 1 49.84	+1 35.75	+22 56 42.7	+4 6.1	0.013075	6 53	8 19
9	4 3 25.59	1 37.21	23 0 48.8	4 6.0	0.017172	6 51	8 19
10	4 5 2.80	1 38.63	23 4 54.8	4 5.8	0.021243	6 48	8 20
11	4 6 41.43	1 40.03	23 9 0.6	4 5.3	0.025286	6 46	8 20
12	4 8 21.46	+1 41.41	23 13 5.9	+4 4.6	0.029301	6 44	8 21
13	4 10 2.87	1 42.77	+23 17 10.5	4 3.7	0.033289	6 42	8 21
14	4 11 45.64	1 44.10	23 21 14.2	4 2.6	0.037249	6 39	8 22
15	4 13 29.74	1 45.40	23 25 16.8	4 1.3	0.041182	6 37	8 22
16	4 15 15.14	1 46.67	23 29 18.1	3 59.7	0.045087	6 35	8 23
17	4 17 1.81	+1 47.91	23 33 17.8	+3 58.0	0.048963	6 33	8 23
18	4 18 49.72	1 49.15	+23 37 15.8	3 56.1	0.052811	6 31	8 24
19	4 20 38.87	1 50.35	23 41 11.9	3 54.0	0.056631	6 28	8 24
20	4 22 29.22	1 51.52	23 45 5.9	3 51.7	0.060423	6 26	8 25
21	4 24 20.74	1 52.66	23 48 57.6	3 49.0	0.064186	6 24	8 25
22	4 26 13.40	+1 53.78	23 52 46.6	+3 46.3	0.067920	6 22	8 26
23	4 28 7.18	1 54.88	+23 56 32.9	3 43.4	0.071626	6 20	8 26
24	4 30 2.06	1 55.95	24 0 16.3	3 40.3	0.075303	6 18	8 27
25	4 31 58.01	1 56.99	24 3 56.6	3 36.9	0.078951	6 16	8 27
26	4 33 55.00	1 58.00	24 7 33.5	3 33.4	0.082571	6 14	8 28
27	4 35 53.00	+1 58.98	24 11 6.9	+3 29.7	0.086162	6 12	8 28
28	4 37 51.98	1 59.94	+24 14 36.6	3 25.8	0.089725	6 10	8 29
29	4 39 51.92	2 0.88	24 18 2.4	3 21.7	0.093260	6 8	8 29
März 1	4 41 52.80	2 1.79	24 21 24.1	3 17.5	0.096766	6 6	8 30
2	4 43 54.59	2 2.69	24 24 41.6	3 13.0	0.100245	6 4	8 30
3	4 45 57.28	+2 3.55	24 27 54.6	+3 8.5	0.103696	6 3	8 31
4	4 48 0.83	2 4.40	+24 31 3.1	3 3.8	0.107120	6 1	8 31
5	4 50 5.23	2 5.24	24 34 6.9	2 58.9	0.110517	5 59	8 31
6	4 52 10.47	2 6.06	24 37 5.8	2 53.9	0.113887	5 57	8 32
7	4 54 16.53	2 6.86	24 39 59.7	2 48.8	0.117230	5 55	8 32
8	4 56 23.39	+2 7.65	24 42 48.5	+2 43.6	0.120546	5 53	8 33
9	4 58 31.04	2 8.43	+24 45 32.1	2 38.2	0.123836	5 51	8 33
10	5 0 39.47	2 9.19	24 48 10.3	2 32.6	0.127101	5 50	8 33
11	5 2 48.66	2 9.93	24 50 42.9	2 27.0	0.130340	5 48	8 34
12	5 4 58.59	2 10.66	24 53 9.9	2 21.3	0.133553	5 46	8 34
13	5 7 9.25	+2 11.37	24 55 31.2	+2 15.3	0.136740	5 44	8 34
14	5 9 20.62	2 12.07	+24 57 46.5	2 9.3	0.139901	5 43	8 35
15	5 11 32.69	2 12.76	24 59 55.8	2 3.1	0.143036	5 41	8 35
16	5 13 45.45	2 13.43	25 1 58.9	1 56.8	0.146146	5 39	8 35
17	5 15 58.88	2 14.08	25 3 55.7	1 50.5	0.149230	5 37	8 35
18	5 18 12.96		25 5 46.2		0.152289	5 36	8 36

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 17	5 15 58.88	+2 14.08	+25 3 55.7	+1 50.5	0.149230	5 37	8 35
18	5 18 12.96	2 14.72	25 5 46.2	1 44.0	0.152289	5 36	8 36
19	5 20 27.68	2 15.35	25 7 30.2	1 37.4	0.155323	5 34	8 36
20	5 22 43.03	2 15.95	25 9 7.6	1 30.7	0.158332	5 32	8 36
21	5 24 58.98	+2 16.53	25 10 38.3	+1 23.8	0.161315	5 31	8 36
22	5 27 15.51	2 17.11	+25 12 2.1	1 16.8	0.164274	5 29	8 37
23	5 29 32.62	2 17.66	25 13 18.9	1 9.8	0.167207	5 27	8 37
24	5 31 50.28	2 18.19	25 14 28.7	1 2.6	0.170115	5 26	8 37
25	5 34 8.47	2 18.70	25 15 31.3	0 55.4	0.172998	5 24	8 37
26	5 36 27.17	+2 19.20	25 16 26.7	+0 48.0	0.175857	5 22	8 37
27	5 38 46.37	2 19.69	+25 17 14.7	0 40.5	0.178691	5 21	8 37
28	5 41 6.06	2 20.14	25 17 55.2	0 33.0	0.181501	5 19	8 37
29	5 43 26.20	2 20.58	25 18 28.2	0 25.4	0.184287	5 18	8 37
30	5 45 46.78	2 21.02	25 18 53.6	0 17.7	0.187049	5 16	8 37
31	5 48 7.80	+2 21.43	25 19 11.3	+0 10.0	0.189787	5 14	8 37
April 1	5 50 29.23	2 21.83	+25 19 21.3	+0 2.1	0.192502	5 13	8 38
2	5 52 51.06	2 22.22	25 19 23.4	−0 5.8	0.195194	5 11	8 38
3	5 55 13.28	2 22.60	25 19 17.6	0 13.7	0.197863	5 10	8 38
4	5 57 35.88	2 22.96	25 19 3.9	0 21.6	0.200510	5 8	8 37
5	5 59 58.84	+2 23.32	25 18 42.3	−0 29.7	0.203134	5 6	8 37
6	6 2 22.16	2 23.67	+25 18 12.6	0 37.9	0.205736	5 5	8 37
7	6 4 45.83	2 24.00	25 17 34.7	0 46.1	0.208316	5 3	8 37
8	6 7 9.83	2 24.33	25 16 48.6	0 54.4	0.210874	5 2	8 37
9	6 9 34.16	2 24.65	25 15 54.2	1 2.6	0.213411	5 0	8 37
10	6 11 58.81	+2 24.95	25 14 51.6	−1 10.9	0.215926	4 59	8 37
11	6 14 23.76	2 25.24	+25 13 40.7	1 19.4	0.218419	4 57	8 37
12	6 16 49.00	2 25.53	25 12 21.3	1 27.8	0.220891	4 56	8 37
13	6 19 14.53	2 25.81	25 10 53.5	1 36.3	0.223342	4 54	8 36
14	6 21 40.34	2 26.07	25 9 17.2	1 44.8	0.225772	4 53	8 36
15	6 24 6.41	+2 26.32	25 7 32.4	−1 53.3	0.228180	4 51	8 36
16	6 26 32.73	2 26.56	+25 5 39.1	2 1.9	0.230568	4 50	8 36
17	6 28 59.29	2 26.79	25 3 37.2	2 10.6	0.232934	4 48	8 35
18	6 31 26.08	2 27.01	25 1 26.6	2 19.3	0.235279	4 47	8 35
19	6 33 53.09	2 27.22	24 59 7.3	2 28.0	0.237603	4 45	8 35
20	6 36 20.31	+2 27.40	24 56 39.3	−2 36.7	0.239907	4 44	8 34
21	6 38 47.71	2 27.57	+24 54 2.6	2 45.4	0.242190	4 42	8 34
22	6 41 15.28	2 27.74	24 51 17.2	2 54.1	0.244452	4 41	8 34
23	6 43 43.02	2 27.90	24 48 23.1	3 3.0	0.246694	4 39	8 33
24	6 46 10.92	2 28.03	24 45 20.1	3 11.8	0.248915	4 38	8 33
25	6 48 38.95		24 42 8.3		0.251116	4 36	8 32

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	m s	° ′ ″	′ ″		h m	h m
April 24	6 46 10.92	+2 28.03	+24 45 20.1	−3 11.8	0.248915	4 38	8 33
25	6 48 38.95	2 28.15	24 42 8.3	3 20.6	0.251116	4 36	8 32
26	6 51 7.10	2 28.26	24 38 47.7	3 29.4	0.253298	4 35	8 32
27	6 53 35.36	2 28.35	24 35 18.3	3 38.2	0.255459	4 33	8 32
28	6 56 3.71	+2 28.44	24 31 40.1	−3 47.0	0.257600	4 32	8 31
29	6 58 32.15	2 28.53	+24 27 53.1	3 55.8	0.259723	4 30	8 31
30	7 1 0.68	2 28.60	24 23 57.3	4 4.6	0.261826	4 29	8 30
Mai 1	7 3 29.28	2 28.66	24 19 52.7	4 13.4	0.263910	4 27	8 29
2	7 5 57.94	2 28.71	24 15 39.3	4 22.2	0.265975	4 26	8 29
3	7 8 26.65	+2 28.76	24 11 17.1	−4 31.0	0.268022	4 25	8 28
4	7 10 55.41	2 28.81	+24 6 46.1	4 39.8	0.270050	4 23	8 28
5	7 13 24.22	2 28.85	24 2 6.3	4 48.5	0.272060	4 22	8 27
6	7 15 53.07	2 28.87	23 57 17.8	4 57.3	0.274052	4 20	8 27
7	7 18 21.94	2 28.89	23 52 20.5	5 6.1	0.276025	4 18	8 26
8	7 20 50.83	+2 28.92	23 47 14.4	−5 14.8	0.277981	4 17	8 25
9	7 23 19.75	2 28.94	+23 41 59.6	5 23.6	0.279919	4 16	8 25
10	7 25 48.69	2 28.94	23 36 36.0	5 32.3	0.281839	4 14	8 24
11	7 28 17.63	2 28.94	23 31 3.7	5 41.0	0.283742	4 13	8 23
12	7 30 46.57	2 28.93	23 25 22.7	5 49.7	0.285627	4 11	8 23
13	7 33 15.50	+2 28.93	23 19 33.0	−5 58.4	0.287494	4 10	8 22
14	7 35 44.43	2 28.91	+23 13 34.6	6 7.1	0.289344	4 8	8 21
15	7 38 13.34	2 28.89	23 7 27.5	6 15.7	0.291176	4 7	8 20
16	7 40 42.23	2 28.85	23 1 11.8	6 24.3	0.292991	4 6	8 19
17	7 43 11.08	2 28.81	22 54 47.5	6 32.9	0.294789	4 4	8 19
18	7 45 39.89	+2 28.76	22 48 14.6	−6 41.5	0.296569	4 3	8 18
19	7 48 8.65	2 28.71	+22 41 33.1	6 49.9	0.298332	4 1	8 17
20	7 50 37.36	2 28.64	22 34 43.2	6 58.4	0.300077	4 0	8 16
21	7 53 6.00	2 28.56	22 27 44.8	7 6.9	0.301805	3 58	8 15
22	7 55 34.56	2 28.49	22 20 37.9	7 15.3	0.303517	3 57	8 14
23	7 58 3.05	+2 28.40	22 13 22.6	−7 23.6	0.305211	3 55	8 13
24	8 0 31.45	2 28.30	+22 5 59.0	7 31.9	0.306889	3 54	8 13
25	8 2 59.75	2 28.20	21 58 27.1	7 40.1	0.308550	3 52	8 12
26	8 5 27.95	2 28.09	21 50 47.0	7 48.3	0.310194	3 51	8 11
27	8 7 56.04	2 27.98	21 42 58.7	7 56.4	0.311822	3 49	8 10
28	8 10 24.02	+2 27.87	21 35 2.3	−8 4.5	0.313434	3 48	8 9
29	8 12 51.89	2 27.75	+21 26 57.8	8 12.5	0.315030	3 46	8 8
30	8 15 19.64	2 27.63	21 18 45.3	8 20.6	0.316610	3 45	8 7
31	8 17 47.27	2 27.50	21 10 24.7	8 28.5	0.318174	3 43	8 6
Juni 1	8 20 14.77	2 27.38	21 1 56.2	8 36.4	0.319723	3 42	8 5
2	8 22 42.15		20 53 19.8		0.321256	3 41	8 4

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Juni	1	8 20 14.77	+2 27.38	+21 1 56.2	− 8 36.4	0.319723	3 42	8 5
	2	8 22 42.15	2 27.25	20 53 19.8	8 44.2	0.321256	3 41	8 4
	3	8 25 9.40	2 27.12	20 44 35.6	8 52.1	0.322774	3 39	8 3
	4	8 27 36.52	2 27.00	20 35 43.5	8 59.9	0.324277	3 38	8 2
	5	8 30 3.52	+2 26.87	20 26 43.6	− 9 7.5	0.325764	3 36	8 1
	6	8 32 30.39	2 26.73	+20 17 36.1	9 15.2	0.327237	3 35	8 0
	7	8 34 57.12	2 26.60	20 8 20.9	9 22.9	0.328694	3 33	7 59
	8	8 37 23.72	2 26.47	19 58 58.0	9 30.4	0.330137	3 32	7 58
	9	8 39 50.19	2 26.34	19 49 27.6	9 38.0	0.331565	3 30	7 57
	10	8 42 16.53	+2 26.20	19 39 49.6	− 9 45.4	0.332978	3 29	7 55
	11	8 44 42.73	2 26.06	+19 30 4.2	9 52.8	0.334376	3 27	7 54
	12	8 47 8.79	2 25.93	19 20 11.4	10 0.2	0.335759	3 26	7 53
	13	8 49 34.72	2 25.79	19 10 11.2	10 7.6	0.337127	3 24	7 52
	14	8 52 0.51	2 25.65	19 0 3.6	10 14.7	0.338481	3 23	7 51
	15	8 54 26.16	+2 25.50	18 49 48.9	−10 21.9	0.339820	3 21	7 50
	16	8 56 51.66	2 25.36	+18 39 27.0	10 29.0	0.341144	3 19	7 49
	17	8 59 17.02	2 25.21	18 28 58.0	10 36.1	0.342454	3 18	7 48
	18	9 1 42.23	2 25.06	18 18 21.9	10 43.0	0.343749	3 16	7 46
	19	9 4 7.29	2 24.90	18 7 38.9	10 49.9	0.345029	3 15	7 45
	20	9 6 32.19	+2 24.74	17 56 49.0	−10 56.7	0.346294	3 13	7 44
	21	9 8 56.93	2 24.58	+17 45 52.3	11 3.4	0.347545	3 12	7 43
	22	9 11 21.51	2 24.42	17 34 48.9	11 10.0	0.348782	3 10	7 42
	23	9 13 45.93	2 24.26	17 23 38.9	11 16.7	0.350005	3 9	7 41
	24	9 16 10.19	2 24.10	17 12 22.2	11 23.2	0.351213	3 7	7 39
	25	9 18 34.29	+2 23.94	17 0 59.0	−11 29.6	0.352408	3 6	7 38
	26	9 20 58.23	2 23.78	+16 49 29.4	11 35.9	0.353589	3 4	7 37
	27	9 23 22.01	2 23.61	16 37 53.5	11 42.2	0.354756	3 3	7 36
	28	9 25 45.62	2 23.46	16 26 11.3	11 48.5	0.355910	3 1	7 35
	29	9 28 9.08	2 23.31	16 14 22.8	11 54.7	0.357050	3 0	7 33
	30	9 30 32.39	+2 23.16	16 2 28.1	−12 0.7	0.358177	2 58	7 32
Juli	1	9 32 55.55	2 23.01	+15 50 27.4	12 6.8	0.359291	2 56	7 31
	2	9 35 18.56	2 22.87	15 38 20.6	12 12.7	0.360391	2 55	7 30
	3	9 37 41.43	2 22.72	15 26 7.9	12 18.6	0.361478	2 53	7 28
	4	9 40 4.15	2 22.59	15 13 49.3	12 24.5	0.362552	2 52	7 27
	5	9 42 26.74	+2 22.45	15 1 24.8	−12 30.3	0.363613	2 50	7 26
	6	9 44 49.19	2 22.32	+14 48 54.5	12 36.0	0.364662	2 49	7 25
	7	9 47 11.51	2 22.19	14 36 18.5	12 41.7	0.365698	2 47	7 23
	8	9 49 33.70	2 22.06	14 23 36.8	12 47.2	0.366720	2 45	7 22
	9	9 51 55.76	2 21.94	14 10 49.6	12 52.8	0.367730	2 44	7 21
	10	9 54 17.70		13 57 56.8		0.368727	2 42	7 20

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Juli 9	9 51 55.76	+2 21.94	+14 10 49.6	−12 52.8	0.367730	2 44	7 21
10	9 54 17.70	2 21.82	13 57 56.8	12 58.3	0.368727	2 42	7 20
11	9 56 39.52	2 21.70	13 44 58.5	13 3.7	0.369711	2 41	7 18
12	9 59 1.22	2 21.59	13 31 54.8	13 8.9	0.370682	2 39	7 17
13	10 1 22.81	+2 21.49	13 18 45.9	−13 14.1	0.371640	2 38	7 16
14	10 3 44.30	2 21.37	+13 5 31.8	13 19.3	0.372586	2 36	7 14
15	10 6 5.67	2 21.26	12 52 12.5	13 24.4	0.373519	2 34	7 13
16	10 8 26.93	2 21.15	12 38 48.1	13 29.4	0.374438	2 33	7 12
17	10 10 48.08	2 21.04	12 25 18.7	13 34.2	0.375341	2 31	7 11
18	10 13 9.12	+2 20.93	12 11 44.5	−13 39.0	0.376239	2 30	7 9
19	10 15 30.05	2 20.83	+11 58 5.5	13 43.7	0.377121	2 28	7 8
20	10 17 50.88	2 20.73	11 44 21.8	13 48.4	0.377989	2 26	7 7
21	10 20 11.61	2 20.62	11 30 33.4	13 52.9	0.378845	2 25	7 5
22	10 22 32.23	2 20.53	11 16 40.5	13 57.3	0.379689	2 23	7 4
23	10 24 52.76	+2 20.43	11 2 43.2	−14 1.6	0.380521	2 22	7 3
24	10 27 13.19	2 20.34	+10 48 41.6	14 6.0	0.381340	2 20	7 1
25	10 29 33.53	2 20.27	10 34 35.6	14 10.2	0.382147	2 18	7 0
26	10 31 53.80	2 20.19	10 20 25.4	14 14.3	0.382942	2 17	6 59
27	10 34 13.99	2 20.11	10 6 11.1	14 18.3	0.383725	2 15	6 57
28	10 36 34.10	+2 20.04	9 51 52.8	−14 22.4	0.384496	2 14	6 56
29	10 38 54.14	2 19.97	+ 9 37 30.4	14 26.3	0.385256	2 12	6 55
30	10 41 14.11	2 19.92	9 23 4.1	14 30.1	0.386004	2 10	6 53
31	10 43 34.03	2 19.87	9 8 34.0	14 34.0	0.386740	2 9	6 52
Aug. 1	10 45 53.90	2 19.82	8 54 0.0	14 37.6	0.387465	2 7	6 51
2	10 48 13.72	+2 19.79	8 39 22.4	−14 41.3	0.388178	2 6	6 49
3	10 50 33.51	2 19.75	+ 8 24 41.1	14 44.8	0.388879	2 4	6 48
4	10 52 53.26	2 19.72	8 9 56.3	14 48.3	0.389569	2 2	6 47
5	10 55 12.98	2 19.70	7 55 8.0	14 51.8	0.390248	2 1	6 45
6	10 57 32.68	2 19.69	7 40 16.2	14 55.1	0.390916	1 59	6 44
7	10 59 52.37	+2 19.68	7 25 21.1	−14 58.4	0.391572	1 57	6 43
8	11 2 12.05	2 19.68	+ 7 10 22.7	15 1.6	0.392216	1 56	6 41
9	11 4 31.73	2 19.68	6 55 21.1	15 4.7	0.392849	1 54	6 40
10	11 6 51.41	2 19.68	6 40 16.4	15 7.8	0.393470	1 53	6 39
11	11 9 11.09	2 19.69	6 25 8.6	15 10.7	0.394080	1 51	6 37
12	11 11 30.78	+2 19.71	6 9 57.9	−15 13.5	0.394679	1 49	6 36
13	11 13 50.49	2 19.72	+ 5 54 44.4	15 16.3	0.395266	1 48	6 35
14	11 16 10.21	2 19.74	5 39 28.1	15 19.0	0.395841	1 46	6 33
15	11 18 29.95	2 19.77	5 24 9.1	15 21.4	0.396405	1 45	6 32
16	11 20 49.72	2 19.79	5 8 47.7	15 23.9	0.396957	1 43	6 31
17	11 23 9.51		4 53 23.8		0.397498	1 41	6 29

Wahrer geozentrischer Ort.

0ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 16	11 20 49.72	+2 19.79	+5 8 47.7	−15 23.9	0.396957	1 43	6 31
17	11 23 9.51	2 19.83	4 53 23.8	15 26.3	0.397498	1 41	6 29
18	11 25 29.34	2 19.87	4 37 57.5	15 28.6	0.398028	1 40	6 28
19	11 27 49.21	2 19.91	4 22 28.9	15 30.7	0.398546	1 38	6 27
20	11 30 9.12	+2 19.96	4 6 58.2	−15 32.9	0.399053	1 36	6 25
21	11 32 29.08	2 20.01	+3 51 25.3	15 34.9	0.399549	1 35	6 24
22	11 34 49.09	2 20.07	3 35 50.4	15 36.8	0.400034	1 33	6 22
23	11 37 9.16	2 20.14	3 20 13.6	15 38.6	0.400508	1 32	6 21
24	11 39 29.30	2 20.21	3 4 35.0	15 40.3	0.400971	1 30	6 20
25	11 41 49.51	+2 20.29	2 48 54.7	−15 41.9	0.401424	1 28	6 18
26	11 44 9.80	2 20.38	+2 33 12.8	15 43.5	0.401866	1 27	6 17
27	11 46 30.18	2 20.48	2 17 29.3	15 45.0	0.402297	1 25	6 16
28	11 48 50.66	2 20.58	2 1 44.3	15 46.5	0.402718	1 24	6 14
29	11 51 11.24	2 20.69	1 45 57.8	15 47.8	0.403128	1 22	6 13
30	11 53 31.93	+2 20.80	1 30 10.0	−15 49.0	0.403528	1 20	6 11
31	11 55 52.73	2 20.93	+1 14 21.0	15 50.2	0.403917	1 19	6 10
Sept. 1	11 58 13.66	2 21.06	0 58 30.8	15 51.3	0.404296	1 17	6 9
2	12 0 34.72	2 21.21	0 42 39.5	15 52.3	0.404665	1 16	6 7
3	12 2 55.93	2 21.35	0 26 47.2	15 53.3	0.405023	1 14	6 6
4	12 5 17.28	+2 21.51	+0 10 53.9	−15 54.1	0.405371	1 12	6 5
5	12 7 38.79	2 21.67	−0 5 0.2	15 54.9	0.405708	1 11	6 3
6	12 10 0.46	2 21.84	0 20 55.1	15 55.5	0.406035	1 9	6 2
7	12 12 22.30	2 22.02	0 36 50.6	15 56.1	0.406352	1 8	6 0
8	12 14 44.32	2 22.20	0 52 46.7	15 56.6	0.406658	1 6	5 59
9	12 17 6.52	+2 22.38	1 8 43.3	−15 56.9	0.406953	1 5	5 58
10	12 19 28.90	2 22.57	−1 24 40.2	15 57.1	0.407238	1 3	5 56
11	12 21 51.47	2 22.77	1 40 37.3	15 57.2	0.407512	1 1	5 55
12	12 24 14.24	2 22.98	1 56 34.5	15 57.3	0.407776	1 0	5 54
13	12 26 37.22	2 23.19	2 12 31.8	15 57.2	0.408029	0 58	5 52
14	12 29 0.41	+2 23.40	2 28 29.0	−15 57.0	0.408272	0 57	5 51
15	12 31 23.81	2 23.61	−2 44 26.0	15 56.6	0.408504	0 55	5 49
16	12 33 47.42	2 23.84	3 0 22.6	15 56.2	0.408726	0 54	5 48
17	12 36 11.26	2 24.07	3 16 18.8	15 55.7	0.408938	0 52	5 47
18	12 38 35.33	2 24.30	3 32 14.5	15 55.0	0.409140	0 51	5 45
19	12 40 59.63	+2 24.54	3 48 9.5	−15 54.2	0.409331	0 49	5 44
20	12 43 24.17	2 24.80	−4 4 3.7	15 53.4	0.409512	0 48	5 42
21	12 45 48.97	2 25.06	4 19 57.1	15 52.5	0.409683	0 46	5 41
22	12 48 14.03	2 25.32	4 35 49.6	15 51.5	0.409845	0 44	5 40
23	12 50 39.35	2 25.59	4 51 41.1	15 50.3	0.409997	0 43	5 38
24	12 53 4.94		5 7 31.4		0.410139	0 41	5 37

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Sept. 23	12 50 39.35	+2 25.59	— 4 51 41.1	—15 50.3	0.409997	0 43	5 38
24	12 53 4.94	2 25.87	5 7 31.4	15 49.0	0.410139	0 41	5 37
25	12 55 30.81	2 26.16	5 23 20.4	15 47.7	0.410271	0 40	5 35
26	12 57 56.97	2 26.46	5 39 8.1	15 46.2	0.410394	0 38	5 34
27	13 0 23.43	+2 26.76	5 54 54.3	—15 44.6	0.410507	0 37	5 33
28	13 2 50.19	2 27.07	— 6 10 38.9	15 43.0	0.410610	0 35	5 31
29	13 5 17.26	2 27.40	6 26 21.9	15 41.2	0.410704	0 34	5 30
30	13 7 44.66	2 27.73	6 42 3.1	15 39.4	0.410788	0 32	5 28
Okt. 1	13 10 12.39	2 28.06	6 57 42.5	15 37.4	0.410863	0 31	5 27
2	13 12 40.45	+2 28.41	7 13 19.9	—15 35.3	0.410928	0 29	5 26
3	13 15 8.86	2 28.76	— 7 28 55.2	15 33.2	0.410984	0 28	5 24
4	13 17 37.62	2 29.12	7 44 28.4	15 30.9	0.411030	0 27	5 23
5	13 20 6.74	2 29.48	7 59 59.3	15 28.4	0.411067	0 25	5 21
6	13 22 36.22	2 29.86	8 15 27.7	15 25.9	0.411094	0 24	5 20
7	13 25 6.08	+2 30.24	8 30 53.6	—15 23.2	0.411111	0 22	5 19
8	13 27 36.32	2 30.63	— 8 46 16.8	15 20.3	0.411119	0 21	5 17
9	13 30 6.95	2 31.01	9 1 37.1	15 17.4	0.411117	0 19	5 16
10	13 32 37.96	2 31.41	9 16 54.5	15 14.5	0.411105	0 18	5 15
11	13 35 9.37	2 31.80	9 32 9.0	15 11.3	0.411084	0 16	5 13
12	13 37 41.17	+2 32.21	9 47 20.3	—15 7.9	0.411053	0 15	5 12
13	13 40 13.38	2 32.62	—10 2 28.2	15 4.3	0.411012	0 13	5 10
14	13 42 46.00	2 33.03	10 17 32.5	15 0.7	0.410962	0 12	5 9
15	13 45 19.03	2 33.45	10 32 33.2	14 57.0	0.410903	0 11	5 8
16	13 47 52.48	2 33.88	10 47 30.2	14 53.1	0.410834	0 9	5 6
17	13 50 26.36	+2 34.30	11 2 23.3	—14 49.0	0.410756	0 8	5 5
18	13 53 0.66	2 34.74	—11 17 12.3	14 44.9	0.410669	0 7	5 4
19	13 55 35.40	2 35.18	11 31 57.2	14 40.6	0.410572	0 5	5 2
20	13 58 10.58	2 35.63	11 46 37.8	14 36.2	0.410466	0 4	5 1
21	14 0 46.21	2 36.10	12 1 14.0	14 31.6	0.410351	0 3	4 59
22	14 3 22.31	+2 36.55	12 15 45.6	—14 27.0	0.410227	0 1	4 58
23	14 5 58.86	2 37.02	—12 30 12.6	14 22.2	0.410094	0 0	4 57
24	14 8 35.88	2 37.49	12 44 34.8	14 17.3	0.409953	23 59	4 55
25	14 11 13.37	2 37.97	12 58 52.1	14 12.2	0.409803	23 57	4 54
26	14 13 51.34	2 38.46	13 13 4.3	14 7.0	0.409644	23 56	4 53
27	14 16 29.80	+2 38.96	13 27 11.3	—14 1.7	0.409476	23 55	4 51
28	14 19 8.76	2 39.45	—13 41 13.0	13 56.2	0.409300	23 53	4 50
29	14 21 48.21	2 39.96	13 55 9.2	13 50.7	0.409115	23 52	4 48
30	14 24 28.17	2 40.48	14 8 59.9	13 45.0	0.408922	23 51	4 47
31	14 27 8.65	2 41.00	14 22 44.9	13 39.1	0.408720	23 50	4 46
Nov. 1	14 29 49.65		14 36 24.0		0,408509	23 48	4 45

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	m s	° ′ ″	′ ″		h m	h m
Okt.	31	14 27 8.65	+2 41.00	−14 22 44.9	−13 39.1	0.408720	23 50	4 46
Nov.	1	14 29 49.65	2 41.53	14 36 24.0	13 33.1	0.408509	23 48	4 45
	2	14 32 31.18	2 42.06	14 49 57.1	13 27.0	0.408290	23 47	4 43
	3	14 35 13.24	2 42.59	15 3 24.1	13 20.7	0.408062	23 46	4 42
	4	14 37 55.83	+2 43.13	15 16 44.8	−13 14.2	0.407825	23 45	4 41
	5	14 40 38.96	2 43.67	−15 29 59.0	13 7.6	0.407580	23 43	4 39
	6	14 43 22.63	2 44.22	15 43 6.6	13 0.9	0.407326	23 42	4 38
	7	14 46 6.85	2 44.76	15 56 7.5	12 53.9	0.407063	23 41	4 37
	8	14 48 51.61	2 45.30	16 9 1.4	12 46.9	0.406792	23 40	4 35
	9	14 51 36.91	+2 45.85	16 21 48.3	−12 39.6	0.406512	23 39	4 34
	10	14 54 22.76	2 46.40	−16 34 27.9	12 32.2	0.406223	23 37	4 33
	11	14 57 9.16	2 46.95	16 47 0.1	12 24.6	0.405925	23 36	4 32
	12	14 59 56.11	2 47.51	16 59 24.7	12 16.9	0.405619	23 35	4 30
	13	15 2 43.62	2 48.07	17 11 41.6	12 9.1	0.405304	23 34	4 29
	14	15 5 31.69	+2 48.62	17 23 50.7	−12 1.1	0.404981	23 33	4 28
	15	15 8 20.31	2 49.18	−17 35 51.8	11 52.8	0.404650	23 32	4 26
	16	15 11 9.49	2 49.73	17 47 44.6	11 44.5	0.404311	23 31	4 25
	17	15 13 59.22	2 50.29	17 59 29.1	11 36.0	0.403964	23 29	4 24
	18	15 16 49.51	2 50.85	18 11 5.1	11 27.3	0.403608	23 28	4 23
	19	15 19 40.36	+2 51.41	18 22 32.4	−11 18.6	0.403244	23 27	4 22
	20	15 22 31.77	2 51.98	−18 33 51.0	11 9.6	0.402872	23 26	4 20
	21	15 25 23.75	2 52.55	18 45 0.6	11 0.5	0.402493	23 25	4 19
	22	15 28 16.30	2 53.12	18 56 1.1	10 51.3	0.402106	23 24	4 18
	23	15 31 9.42	2 53.69	19 6 52.4	10 41.9	0.401712	23 23	4 17
	24	15 34 3.11	+2 54.26	19 17 34.3	−10 32.4	0.401310	23 22	4 16
	25	15 36 57.37	2 54.82	−19 28 6.7	10 22.7	0.400900	23 21	4 15
	26	15 39 52.19	2 55.39	19 38 29.4	10 13.0	0.400482	23 20	4 13
	27	15 42 47.58	2 55.97	19 48 42.4	10 3.0	0.400057	23 19	4 12
	28	15 45 43.55	2 56.55	19 58 45.4	9 52.8	0.399625	23 18	4 11
	29	15 48 40.10	+2 57.12	20 8 38.2	−9 42.6	0.399186	23 17	4 10
	30	15 51 37.22	2 57.70	−20 18 20.8	9 32.1	0.398739	23 16	4 9
Dez.	1	15 54 34.92	2 58.26	20 27 52.9	9 21.5	0.398284	23 15	4 8
	2	15 57 33.18	2 58.83	20 37 14.4	9 10.8	0.397822	23 14	4 7
	3	16 0 32.01	2 59.39	20 46 25.2	8 59.9	0.397352	23 13	4 6
	4	16 3 31.40	+2 59.95	20 55 25.1	−8 48.8	0.396875	23 12	4 5
	5	16 6 31.35	3 0.50	−21 4 13.9	8 37.7	0.396390	23 11	4 4
	6	16 9 31.85	3 1.05	21 12 51.6	8 26.3	0.395898	23 10	4 3
	7	16 12 32.90	3 1.59	21 21 17.9	8 14.8	0.395398	23 9	4 2
	8	16 15 34.49	3 2.13	21 29 32.7	8 3.1	0.394891	23 8	4 1
	9	16 18 36.62		21 37 35.8		0.394376	23 7	4 0

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Dez. 8	16 15 34.49	+3 2.13	−21 29 32.7	−8 3.1	0.394891	23 8	4 1
9	16 18 36.62	3 2.65	21 37 35.8	7 51.3	0.394376	23 7	4 0
10	16 21 39.27	3 3.17	21 45 27.1	7 39.3	0.393854	23 6	3 59
11	16 24 42.44	3 3.69	21 53 6.4	7 27.2	0.393325	23 6	3 58
12	16 27 46.13	+3 4.19	22 0 33.6	−7 15.0	0.392789	23 5	3 57
13	16 30 50.32	3 4.69	−22 7 48.6	7 2.6	0.392246	23 4	3 57
14	16 33 55.01	3 5.19	22 14 51.2	6 50.1	0.391696	23 3	3 56
15	16 37 0.20	3 5.68	22 21 41.3	6 37.4	0.391139	23 2	3 55
16	16 40 5.88	3 6.15	22 28 18.7	6 24.6	0.390575	23 1	3 54
17	16 43 12.03	+3 6.63	22 34 43.3	−6 11.7	0.390004	23 0	3 53
18	16 46 18.66	3 7.09	−22 40 55.0	5 58.8	0.389427	23 0	3 53
19	16 49 25.75	3 7.55	22 46 53.8	5 45.6	0.388843	22 59	3 52
20	16 52 33.30	3 7.99	22 52 39.4	5 32.3	0.388253	22 58	3 51
21	16 55 41.29	3 8.43	22 58 11.7	5 18.9	0.387657	22 57	3 51
22	16 58 49.72	+3 8.86	23 3 30.6	−5 5.4	0.387054	22 56	3 50
23	17 1 58.58	3 9.29	−23 8 36.0	4 51.9	0.386445	22 55	3 49
24	17 5 7.87	3 9.71	23 13 27.9	4 38.2	0.385830	22 55	3 49
25	17 8 17.58	3 10.12	23 18 6.1	4 24.4	0.385209	22 54	3 48
26	17 11 27.70	3 10.53	23 22 30.5	4 10.4	0.384582	22 53	3 48
27	17 14 38.23	+3 10.92	23 26 40.9	−3 56.4	0.383950	22 52	3 47
28	17 17 49.15	3 11.31	−23 30 37.3	3 42.3	0.383312	22 51	3 47
29	17 21 0.46	3 11.68	23 34 19.6	3 28.1	0.382668	22 51	3 46
30	17 24 12.14	3 12.04	23 37 47.7	3 13.7	0.382017	22 50	3 46
31	17 27 24.18	3 12.39	23 41 1.4	2 59.3	0.381360	22 49	3 45
32	17 30 36.57	+3 12.72	23 44 0.7	−2 44.8	0.380698	22 49	3 45
33	17 33 49.29		−23 46 45.5		0.380030	22 48	3 45

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Jan. 0	16 10 24.93	+1 41.35	−20 18 10.7	−4 24.0	0.789275	21 35	4 9
2	16 12 6.28	1 40.42	20 22 34.7	4 17.3	0.787926	21 29	4 9
4	16 13 46.70	1 39.43	20 26 52.0	4 10.5	0.786521	21 23	4 8
6	16 15 26.13	1 38.39	20 31 2.5	4 3.8	0.785061	21 17	4 8
8	16 17 4.52	+1 37.29	20 35 6.3	−3 57.1	0.783545	21 10	4 7
10	16 18 41.81	1 36.14	−20 39 3.4	3 50.3	0.781975	21 4	4 7
12	16 20 17.95	1 34.92	20 42 53.7	3 43.5	0.780351	20 58	4 6
14	16 21 52.87	1 33.65	20 46 37.2	3 36.6	0.778672	20 52	4 6
16	16 23 26.52	1 32.30	20 50 13.8	3 29.8	0.776940	20 45	4 5
18	16 24 58.82	+1 30.89	20 53 43.6	−3 23.0	0.775156	20 39	4 5
20	16 26 29.71	1 29.41	−20 57 6.6	3 16.2	0.773319	20 33	4 5
22	16 27 59.12	1 27.87	21 0 22.8	3 9.4	0.771432	20 26	4 4
24	16 29 26.99	1 26.27	21 3 32.2	3 2.7	0.769494	20 20	4 4
26	16 30 53.26	1 24.61	21 6 34.9	2 56.0	0.767508	20 13	4 4
28	16 32 17.87	+1 22.90	21 9 30.9	−2 49.3	0.765473	20 7	4 3
30	16 33 40.77	1 21.13	−21 12 20.2	2 42.8	0.763392	20 0	4 3
Febr. 1	16 35 1.90	1 19.30	21 15 3.0	2 36.3	0.761265	19 54	4 3
3	16 36 21.20	1 17.42	21 17 39.3	2 29.9	0.759093	19 47	4 2
5	16 37 38.62	1 15.48	21 20 9.2	2 23.5	0.756878	19 41	4 2
7	16 38 54.10	+1 13.47	21 22 32.7	−2 17.2	0.754620	19 34	4 2
9	16 40 7.57	1 11.39	−21 24 49.9	2 11.0	0.752320	19 27	4 2
11	16 41 18.96	1 9.24	21 27 0.9	2 4.7	0.749980	19 21	4 1
13	16 42 28.20	1 7.03	21 29 5.6	1 58.6	0.747601	19 14	4 1
15	16 43 35.23	1 4.75	21 31 4.2	1 52.4	0.745184	19 7	4 1
17	16 44 39.98	+1 2.40	21 32 56.6	−1 46.4	0.742732	19 0	4 1
19	16 45 42.38	0 59.99	−21 34 43.0	1 40.4	0.740245	18 54	4 0
21	16 46 42.37	0 57.53	21 36 23.4	1 34.6	0.737726	18 47	4 0
23	16 47 39.90	0 55.00	21 37 58.0	1 28.8	0.735177	18 40	4 0
25	16 48 34.90	0 52.42	21 39 26.8	1 23.1	0.732600	18 33	4 0
27	16 49 27.32	+0 49.80	21 40 49.9	−1 17.6	0.729998	18 26	4 0
29	16 50 17.12	0 47.13	−21 42 7.5	1 12.1	0.727372	18 19	4 0
März 2	16 51 4.25	0 44.40	21 43 19.6	1 6.7	0.724725	18 12	3 59
4	16 51 48.65	0 41.63	21 44 26.3	1 1.3	0.722058	18 4	3 59
6	16 52 30.28	0 38.80	21 45 27.6	0 56.1	0.719373	17 57	3 59
8	16 53 9.08	+0 35.92	21 46 23.7	−0 50.8	0.716673	17 50	3 59
10	16 53 45.00	0 32.98	−21 47 14.5	0 45.7	0.713961	17 43	3 59
12	16 54 17.98	0 30.00	21 48 0.2	0 40.5	0.711239	17 35	3 59
14	16 54 47.98	0 26.96	21 48 40.7	0 35.5	0.708510	17 28	3 59
16	16 55 14.94	0 23.88	21 49 16.2	0 30.5	0.705776	17 21	3 59
18	16 55 38.82		21 49 46.7		0.703042	17 13	3 59

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
März 16	16 55 14.94	+0 23.88	−21 49 16.2	−0 30.5	0.705776	17 21	3 59
18	16 55 38.82	0 20.77	21 49 46.7	0 25.5	0.703042	17 13	3 59
20	16 55 59.59	0 17.63	21 50 12.2	0 20.7	0.700310	17 6	3 59
22	16 56 17.22	0 14.46	21 50 32.9	0 15.8	0.697584	16 58	3 59
24	16 56 31.68	+0 11.28	21 50 48.7	−0 11.0	0.694868	16 50	3 59
26	16 56 42.96	0 8.08	−21 50 59.7	0 6.3	0.692164	16 43	3 59
28	16 56 51.04	0 4.89	21 51 6.0	−0 1.6	0.689477	16 35	3 59
30	16 56 55.93	+0 1.69	21 51 7.6	+0 3.0	0.686810	16 27	3 59
April 1	16 56 57.62	−0 1.52	21 51 4.6	0 7.5	0.684166	16 19	3 59
3	16 56 56.10	−0 4.72	21 50 57.1	+0 12.1	0.681549	16 11	3 59
5	16 56 51.38	0 7.93	−21 50 45.0	0 16.7	0.678962	16 3	3 59
7	16 56 43.45	0 11.13	21 50 28.3	0 21.3	0.676410	15 55	3 59
9	16 56 32.32	0 14.31	21 50 7.0	0 26.0	0.673896	15 47	3 59
11	16 56 18.01	0 17.49	21 49 41.0	0 30.5	0.671424	15 39	3 59
13	16 56 0.52	−0 20.64	21 49 10.5	+0 35.1	0.668999	15 31	3 59
15	16 55 39.88	0 23.74	−21 48 35.4	0 39.6	0.666624	15 23	3 59
17	16 55 16.14	0 26.77	21 47 55.8	0 44.1	0.664305	15 14	3 59
19	16 54 49.37	0 29.74	21 47 11.7	0 48.5	0.662046	15 6	3 59
21	16 54 19.63	0 32.63	21 46 23.2	0 53.0	0.659851	14 58	3 59
23	16 53 47.00	−0 35.44	21 45 30.2	+0 57.3	0.657724	14 49	3 59
25	16 53 11.56	0 38.17	−21 44 32.9	1 1.6	0.655669	14 41	3 59
27	16 52 33.39	0 40.80	21 43 31.3	1 5.8	0.653690	14 32	3 59
29	16 51 52.59	0 43.34	21 42 25.5	1 10.0	0.651791	14 24	4 0
Mai 1	16 51 9.25	0 45.78	21 41 15.5	1 14.2	0.649975	14 15	4 0
3	16 50 23.47	−0 48.11	21 40 1.3	+1 18.2	0.648246	14 6	4 0
5	16 49 35.36	0 50.32	−21 38 43.1	1 22.3	0.646607	13 58	4 0
7	16 48 45.04	0 52.42	21 37 20.8	1 26.2	0.645063	13 49	4 0
9	16 47 52.62	0 54.38	21 35 54.6	1 30.0	0.643616	13 40	4 0
11	16 46 58.24	0 56.20	21 34 24.6	1 33.6	0.642270	13 32	4 0
13	16 46 2.04	−0 57.88	21 32 51.0	+1 37.1	0.641027	13 23	4 1
15	16 45 4.16	0 59.38	−21 31 13.9	1 40.3	0.639892	13 14	4 1
17	16 44 4.78	1 0.71	21 29 33.6	1 43.3	0.638866	13 5	4 1
19	16 43 4.07	1 1.87	21 27 50.3	1 46.1	0.637953	12 56	4 1
21	16 42 2.20	1 2.84	21 26 4.2	1 48.6	0.637154	12 47	4 1
23	16 40 59.36	−1 3.64	21 24 15.6	+1 50.8	0.636472	12 38	4 2
25	16 39 55.72	1 4.25	−21 22 24.8	1 52.8	0.635906	12 29	4 2
27	16 38 51.47	1 4.70	21 20 32.0	1 54.4	0.635459	12 20	4 2
29	16 37 46.77	1 4.97	21 18 37.6	1 55.8	0.635130	12 11	4 2
31	16 36 41.80	1 5.06	21 16 41.8	1 56.9	0.634921	12 2	4 3
Juni 2	16 35 36.74		21 14 44.9		0.634831	11 53	4 3

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Mai	31	16 36 41.80	−1 5.06	−21 16 41.8	+1 56.9	0.634921	12 2	4 3
Juni	2	16 35 36.74	1 4.98	21 14 44.9	1 57.6	0.634831	11 53	4 3
	4	16 34 31.76	1 4.73	21 12 47.3	1 58.0	0.634861	11 44	4 3
	6	16 33 27.03	1 4.30	21 10 49.3	1 58.0	0.635010	11 35	4 3
	8	16 32 22.73	−1 3.69	21 8 51.3	+1 57.6	0.635279	11 26	4 3
	10	16 31 19.04	1 2.90	−21 6 53.7	1 56.7	0.635666	11 18	4 4
	12	16 30 16.14	1 1.93	21 4 57.0	1 55.4	0.636171	11 9	4 4
	14	16 29 14.21	1 0.79	21 3 1.6	1 53.7	0.636791	11 0	4 4
	16	16 28 13.42	0 59.47	21 1 7.9	1 51.5	0.637526	10 51	4 4
	18	16 27 13.95	−0 57.99	20 59 16.4	+1 48.9	0.638374	10 42	4 4
	20	16 26 15.96	0 56.36	−20 57 27.5	1 46.0	0.639331	10 33	4 5
	22	16 25 19.60	0 54.59	20 55 41.5	1 42.5	0.640396	10 24	4 5
	24	16 24 25.01	0 52.67	20 53 59.0	1 38.8	0.641565	10 15	4 5
	26	16 23 32.34	0 50.64	20 52 20.2	1 34.6	0.642834	10 7	4 5
	28	16 22 41.70	−0 48.51	20 50 45.6	+1 30.2	0.644201	9 58	4 5
	30	16 21 53.19	0 46.25	−20 49 15.4	1 25.3	0.645663	9 49	4 6
Juli	2	16 21 6.94	0 43.90	20 47 50.1	1 20.2	0.647216	9 41	4 6
	4	16 20 23.04	0 41.44	20 46 29.9	1 14.7	0.648857	9 32	4 6
	6	16 19 41.60	0 38.90	20 45 15.2	1 8.9	0.650582	9 23	4 6
	8	16 19 2.70	−0 36.26	20 44 6.3	+1 2.7	0.652387	9 15	4 6
	10	16 18 26.44	0 33.54	−20 43 3.6	0 56.4	0.654269	9 6	4 6
	12	16 17 52.90	0 30.73	20 42 7.2	0 49.7	0.656225	8 58	4 6
	14	16 17 22.17	0 27.86	20 41 17.5	0 42.7	0.658250	8 50	4 6
	16	16 16 54.31	0 24.92	20 40 34.8	0 35.5	0.660340	8 41	4 7
	18	16 16 29.39	−0 21.95	20 39 59.3	+0 28.3	0.662491	8 33	4 7
	20	16 16 7.44	0 18.94	−20 39 31.0	0 20.8	0.664698	8 25	4 7
	22	16 15 48.50	0 15.90	20 39 10.2	0 13.4	0.666957	8 16	4 7
	24	16 15 32.60	0 12.84	20 38 56.8	+0 5.8	0.669265	8 8	4 7
	26	16 15 19.76	0 9.77	20 38 51.0	−0 1.8	0.671616	8 0	4 7
	28	16 15 9.99	−0 6.69	20 38 52.8	−0 9.5	0.674008	7 52	4 7
	30	16 15 3.30	0 3.60	−20 39 2.3	0 17.2	0.676436	7 44	4 7
Aug.	1	16 14 59.70	−0 0.51	20 39 19.5	0 24.9	0.678896	7 36	4 7
	3	16 14 59.19	+0 2.58	20 39 44.4	0 32.5	0.681386	7 28	4 7
	5	16 15 1.77	0 5.67	20 40 16.9	0 40.2	0.683902	7 21	4 7
	7	16 15 7.44	+0 8.77	20 40 57.1	−0 47.9	0.686440	7 13	4 7
	9	16 15 16.21	0 11.86	−20 41 45.0	0 55.4	0.688997	7 5	4 6
	11	16 15 28.07	0 14.93	20 42 40.4	1 2.9	0.691570	6 57	4 6
	13	16 15 43.00	0 17.98	20 43 43.3	1 10.2	0.694155	6 50	4 6
	15	16 16 0.98	0 21.01	20 44 53.5	1 17.4	0.696748	6 42	4 6
	17	16 16 21.99		20 46 10.9		0.699347	6 35	4 6

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	m s	° ′ ″	′ ″		h m	h m
Aug. 15	16 16 0.98	+0 21.01	−20 44 53.5	−1 17.4	0.696748	6 42	4 6
17	16 16 21.99	0 24.01	20 46 10.9	1 24.4	0.699347	6 35	4 6
19	16 16 46.00	0 26.98	20 47 35.3	1 31.2	0.701947	6 27	4 6
21	16 17 12.98	0 29.90	20 49 6.5	1 37.8	0.704546	6 20	4 6
23	16 17 42.88	+0 32.78	20 50 44.3	−1 44.3	0.707141	6 12	4 5
25	16 18 15.66	0 35.62	−20 52 28.6	1 50.4	0.709730	6 5	4 5
27	16 18 51.28	0 38.42	20 54 19.0	1 56.3	0.712310	5 58	4 5
29	16 19 29.70	0 41.17	20 56 15.3	2 2.0	0.714878	5 50	4 5
31	16 20 10.87	0 43.89	20 58 17.3	2 7.6	0.717433	5 43	4 5
Sept. 2	16 20 54.76	+0 46.57	21 0 24.9	−2 12.8	0.719973	5 36	4 4
4	16 21 41.33	0 49.22	−21 2 37.7	2 17.9	0.722495	5 29	4 4
6	16 22 30.55	0 51.83	21 4 55.6	2 22.7	0.724996	5 22	4 4
8	16 23 22.38	0 54.40	21 7 18.3	2 27.3	0.727475	5 15	4 4
10	16 24 16.78	0 56.93	21 9 45.6	2 31.6	0.729930	5 8	4 3
12	16 25 13.71	+0 59.40	21 12 17.2	−2 35.5	0.732359	5 1	4 3
14	16 26 13.11	1 1.82	−21 14 52.7	2 39.1	0.734759	4 54	4 3
16	16 27 14.93	1 4.18	21 17 31.8	2 42.5	0.737129	4 47	4 2
18	16 28 19.11	1 6.49	21 20 14.3	2 45.6	0.739467	4 40	4 2
20	16 29 25.60	1 8.74	21 22 59.9	2 48.3	0.741772	4 33	4 2
22	16 30 34.34	+1 10.94	21 25 48.2	−2 50.8	0.744041	4 27	4 1
24	16 31 45.28	1 13.10	−21 28 39.0	2 53.0	0.746274	4 20	4 1
26	16 32 58.38	1 15.20	21 31 32.0	2 54.8	0.748469	4 13	4 1
28	16 34 13.58	1 17.25	21 34 26.8	2 56.5	0.750626	4 7	4 0
30	16 35 30.83	1 19.27	21 37 23.3	2 57.9	0.752743	4 0	4 0
Okt. 2	16 36 50.10	+1 21.23	21 40 21.2	−2 58.9	0.754819	3 54	4 0
4	16 38 11.33	1 23.16	−21 43 20.1	2 59.8	0.756854	3 47	3 59
6	16 39 34.49	1 25.04	21 46 19.9	3 0.3	0.758845	3 41	3 59
8	16 40 59.53	1 26.87	21 49 20.2	3 0.6	0.760792	3 34	3 59
10	16 42 26.40	1 28.64	21 52 20.8	3 0.5	0.762693	3 28	3 58
12	16 43 55.04	+1 30.37	21 55 21.3	−3 0.2	0.764548	3 21	3 58
14	16 45 25.41	1 32.04	−21 58 21.5	2 59.5	0.766355	3 15	3 58
16	16 46 57.45	1 33.65	22 1 21.0	2 58.7	0.768114	3 8	3 57
18	16 48 31.10	1 35.21	22 4 19.7	2 57.6	0.769823	3 2	3 57
20	16 50 6.31	1 36.71	22 7 17.3	2 56.1	0.771482	2 56	3 57
22	16 51 43.02	+1 38.16	22 10 13.4	−2 54.4	0.773090	2 50	3 56
24	16 53 21.18	1 39.56	−22 13 7.8	2 52.5	0.774647	2 43	3 56
26	16 55 0.74	1 40.93	22 16 0.3	2 50.4	0.776152	2 37	3 56
28	16 56 41.67	1 42.25	22 18 50.7	2 48.1	0.777605	2 31	3 55
30	16 58 23.92	1 43.52	22 21 38.8	2 45.5	0.779006	2 25	3 55
Nov. 1	17 0 7.44		22 24 24.3		0.780353	2 19	3 55

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR. h m s	Diff. m s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tagbogen h m
Okt.	30	16 58 23.92	+1 43.52	−22 21 38.8	−2 45.5	0.779006	2 25	3 55
Nov.	1	17 0 7.44	1 44.76	22 24 24.3	2 42.8	0.780353	2 19	3 55
	3	17 1 52.20	1 45.94	22 27 7.1	2 39.9	0.781647	2 13	3 54
	5	17 3 38.14	1 47.08	22 29 47.0	2 36.6	0.782886	2 6	3 54
	7	17 5 25.22	+1 48.16	22 32 23.6	−2 33.2	0.784070	2 0	3 54
	9	17 7 13.38	1 49.20	−22 34 56.8	2 29.6	0.785198	1 54	3 53
	11	17 9 2.58	1 50.18	22 37 26.4	2 25.8	0.786269	1 48	3 53
	13	17 10 52.76	1 51.10	22 39 52.2	2 21.7	0.787283	1 42	3 53
	15	17 12 43.86	1 51.98	22 42 13.9	2 17.6	0.788240	1 36	3 53
	17	17 14 35.84	+1 52.79	22 44 31.5	−2 13.2	0.789140	1 30	3 52
	19	17 16 28.63	1 53.56	−22 46 44.7	2 8.7	0.789982	1 24	3 52
	21	17 18 22.19	1 54.28	22 48 53.4	2 4.1	0.790767	1 18	3 52
	23	17 20 16.47	1 54.96	22 50 57.5	1 59.3	0.791494	1 12	3 51
	25	17 22 11.43	1 55.59	22 52 56.8	1 54.4	0.792162	1 6	3 51
	27	17 24 7.02	+1 56.18	22 54 51.2	−1 49.5	0.792772	1 0	3 51
	29	17 26 3.20	1 56.73	−22 56 40.7	1 44.4	0.793324	0 54	3 51
Dez.	1	17 27 59.93	1 57.23	22 58 25.1	1 39.2	0.793817	0 48	3 51
	3	17 29 57.16	1 57.69	23 0 4.3	1 33.8	0.794250	0 42	3 50
	5	17 31 54.85	1 58.10	23 1 38.1	1 28.4	0.794624	0 36	3 50
	7	17 33 52.95	+1 58.44	23 3 6.5	−1 22.9	0.794938	0 30	3 50
	9	17 35 51.39	1 58.74	−23 4 29.4	1 17.3	0.795191	0 25	3 50
	11	17 37 50.13	1 58.97	23 5 46.7	1 11.6	0.795385	0 19	3 50
	13	17 39 49.10	1 59.15	23 6 58.3	1 5.9	0.795518	0 13	3 50
	15	17 41 48.25	1 59.27	23 8 4.2	1 0.1	0.795591	0 7	3 49
	17	17 43 47.52	+1 59.35	23 9 4.3	−0 54.4	0.795603	0 1	3 49
	19	17 45 46.87	1 59.39	−23 9 58.7	0 48.6	0.795555	23 55	3 49
	21	17 47 46.26	1 59.38	23 10 47.3	0 42.9	0.795447	23 49	3 49
	23	17 49 45.64	1 59.33	23 11 30.2	0 37.1	0.795278	23 43	3 49
	25	17 51 44.97	1 59.23	23 12 7.3	0 31.3	0.795050	23 37	3 49
	27	17 53 44.20	+1 59.08	23 12 38.6	−0 25.6	0.794762	23 31	3 49
	29	17 55 43.28	1 58.88	−23 13 4.2	0 19.8	0.794414	23 26	3 49
	31	17 57 42.16	1 58.64	23 13 24.0	0 14.0	0.794006	23 20	3 49
	33	17 59 40.80		23 13 38.0		0.793537	23 14	3 49

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Jan. 0	2 47 13.74	−13.17	+13 36 49.4	−0 24.6	0.931623	8 12	7 18
2	2 47 0.57	11.48	13 36 24.8	0 16.5	0.933024	8 4	7 17
4	2 46 49.09	9.79	13 36 8.3	0 8.4	0.934453	7 56	7 17
6	2 46 39.30	8.07	13 35 59.9	−0 0.3	0.935908	7 48	7 17
8	2 46 31.23	− 6.33	13 35 59.6	+0 7.9	0.937387	7 40	7 17
10	2 46 24.90	4.58	+13 36 7.5	0 16.1	0.938887	7 32	7 17
12	2 46 20.32	2.81	13 36 23.6	0 24.4	0.940407	7 24	7 17
14	2 46 17.51	− 1.03	13 36 48.0	0 32.6	0.941945	7 16	7 17
16	2 46 16.48	+ 0.75	13 37 20.6	0 40.8	0.943498	7 8	7 18
18	2 46 17.23	+ 2.53	13 38 1.4	+0 49.1	0.945065	7 0	7 18
20	2 46 19.76	4.32	+13 38 50.5	0 57.2	0.946642	6 52	7 18
22	2 46 24.08	6.10	13 39 47.7	1 5.3	0.948227	6 45	7 18
24	2 46 30.18	7.86	13 40 53.0	1 13.3	0.949818	6 37	7 18
26	2 46 38.04	9.63	13 42 6.3	1 21.2	0.951413	6 29	7 18
28	2 46 47.67	+11.37	13 43 27.5	+1 28.9	0.953010	6 21	7 18
30	2 46 59.04	13.11	+13 44 56.4	1 36.4	0.954607	6 14	7 18
Febr. 1	2 47 12.15	14.81	13 46 32.8	1 43.9	0.956202	6 6	7 18
3	2 47 26.96	16.50	13 48 16.7	1 51.2	0.957794	5 58	7 19
5	2 47 43.46	18.18	13 50 7.9	1 58.3	0.959380	5 51	7 19
7	2 48 1.64	+19.84	13 52 6.2	+2 5.4	0.960959	5 43	7 19
9	2 48 21.48	21.48	+13 54 11.6	2 12.3	0.962529	5 36	7 19
11	2 48 42.96	23.11	13 56 23.9	2 19.1	0.964088	5 28	7 19
13	2 49 6.07	24.71	13 58 43.0	2 25.7	0.965635	5 21	7 20
15	2 49 30.78	26.29	14 1 8.7	2 32.1	0.967169	5 13	7 20
17	2 49 57.07	+27.83	14 3 40.8	+2 38.3	0.968687	5 6	7 20
19	2 50 24.90	29.35	+14 6 19.1	2 44.3	0.970189	4 58	7 20
21	2 50 54.25	30.84	14 9 3.4	2 50.2	0.971672	4 51	7 21
23	2 51 25.09	32.30	14 11 53.6	2 55.7	0.973135	4 44	7 21
25	2 51 57.39	33.73	14 14 49.3	3 1.1	0.974576	4 36	7 21
27	2 52 31.12	+35.12	14 17 50.4	+3 6.2	0.975995	4 29	7 22
29	2 53 6.24	36.48	+14 20 56.6	3 11.2	0.977390	4 22	7 22
März 2	2 53 42.72	37.80	14 24 7.8	3 15.9	0.978760	4 14	7 22
4	2 54 20.52	39.09	14 27 23.7	3 20.4	0.980105	4 7	7 23
6	2 54 59.61	40.36	14 30 44.1	3 24.8	0.981423	4 0	7 23
8	2 55 39.97	+41.59	14 34 8.9	+3 28.9	0.982713	3 53	7 23
10	2 56 21.56	42.80	+14 37 37.8	3 32.9	0.983975	3 45	7 24
12	2 57 4.36	43.97	14 41 10.7	3 36.7	0.985207	3 38	7 24
14	2 57 48.33	45.10	14 44 47.4	3 40.2	0.986409	3 31	7 24
16	2 58 33.43	46.21	14 48 27.6	3 43.5	0.987579	3 24	7 25
18	2 59 19.64		14 52 11.1		0.988716	3 17	7 25

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. s	Dekl. ° ′ ″	Diff. ′ ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
März 16	2 58 33.43	+46.21	+14 48 27.6	+3 43.5	0.987579	3 24	7 25
18	2 59 19.64	47.28	14 52 11.1	3 46.6	0.988716	3 17	7 25
20	3 0 6.92	48.30	14 55 57.7	3 49.4	0.989820	3 10	7 25
22	3 0 55.22	49.30	14 59 47.1	3 52.1	0.990890	3 3	7 26
24	3 1 44.52	+50.25	15 3 39.2	+3 54.6	0.991926	2 56	7 26
26	3 2 34.77	51.17	+15 7 33.8	3 56.8	0.992927	2 48	7 27
28	3 3 25.94	52.04	15 11 30.6	3 58.9	0.993892	2 41	7 27
30	3 4 17.98	52.89	15 15 29.5	4 0.6	0.994820	2 34	7 27
April 1	3 5 10.87	53.69	15 19 30.1	4 2.1	0.995711	2 27	7 28
3	3 6 4.56	+54.47	15 23 32.2	+4 3.6	0.996566	2 20	7 28
5	3 6 59.03	55.22	+15 27 35.8	4 4.8	0.997383	2 13	7 29
7	3 7 54.25	55.93	15 31 40.6	4 6.0	0.998162	2 6	7 29
9	3 8 50.18	56.60	15 35 46.6	4 6.8	0.998902	2 0	7 29
11	3 9 46.78	57.25	15 39 53.4	4 7.5	0.999604	1 53	7 30
13	3 10 44.03	+57.85	15 44 0.9	+4 8.1	1.000267	1 46	7 30
15	3 11 41.88	58.43	+15 48 9.0	4 8.4	1.000890	1 39	7 31
17	3 12 40.31	58.96	15 52 17.4	4 8.6	1.001473	1 32	7 31
19	3 13 39.27	59.46	15 56 26.0	4 8.5	1.002016	1 25	7 32
21	3 14 38.73	59.92	16 0 34.5	4 8.2	1.002518	1 18	7 32
23	3 15 38.65	+60.34	16 4 42.7	+4 7.8	1.002979	1 11	7 32
25	3 16 38.99	60.72	+16 8 50.5	4 7.2	1.003399	1 4	7 33
27	3 17 39.71	61.07	16 12 57.7	4 6.5	1.003778	0 57	7 33
29	3 18 40.78	61.38	16 17 4.2	4 5.7	1.004116	0 51	7 34
Mai 1	3 19 42.16	61.67	16 21 9.9	4 4.6	1.004414	0 44	7 34
3	3 20 43.83	+61.93	16 25 14.5	+4 3.4	1.004671	0 37	7 35
5	3 21 45.76	62.15	+16 29 17.9	4 2.2	1.004886	0 30	7 35
7	3 22 47.91	62.33	16 33 20.1	4 0.7	1.005060	0 23	7 35
9	3 23 50.24	62.48	16 37 20.8	3 59.2	1.005192	0 16	7 36
11	3 24 52.72	62.61	16 41 20.0	3 57.5	1.005283	0 9	7 36
13	3 25 55.33	+62.70	16 45 17.5	+3 55.7	1.005333	0 3	7 37
15	3 26 58.03	62.74	+16 49 13.2	3 53.6	1.005341	23 56	7 37
17	3 28 0.77	62.75	16 53 6.8	3 51.4	1.005308	23 49	7 37
19	3 29 3.52	62.72	16 56 58.2	3 49.2	1.005233	23 42	7 38
21	3 30 6.24	62.65	17 0 47.4	3 46.8	1.005116	23 35	7 38
23	3 31 8.89	+62.54	17 4 34.2	+3 44.2	1.004958	23 28	7 39
25	3 32 11.43	62.40	+17 8 18.4	3 41.6	1.004759	23 21	7 39
27	3 33 13.83	62.25	17 12 0.0	3 38.9	1.004519	23 15	7 39
29	3 34 16.08	62.05	17 15 38.9	3 36.1	1.004239	23 8	7 40
31	3 35 18.13	61.81	17 19 15.0	3 33.2	1.003918	23 1	7 40
Juni 2	3 36 19.94		17 22 48.2		1.003557	22 54	7 41

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	′ ″		h m	h m
Mai	31	3 35 18.13	+61.81	+17 19 15.0	+3 33.2	1.003918	23 1	7 40
Juni	2	3 36 19.94	61.55	17 22 48.2	3 30.1	1.003557	22 54	7 41
	4	3 37 21.49	61.25	17 26 18.3	3 27.1	1.003156	22 47	7 41
	6	3 38 22.74	60.92	17 29 45.4	3 23.9	1.002715	22 40	7 41
	8	3 39 23.66	+60.56	17 33 9.3	+3 20.7	1.002234	22 34	7 42
	10	3 40 24.22	60.15	+17 36 30.0	3 17.3	1.001714	22 27	7 42
	12	3 41 24.37	59.71	17 39 47.3	3 13.8	1.001154	22 20	7 42
	14	3 42 24.08	59.23	17 43 1.1	3 10.2	1.000555	22 13	7 43
	16	3 43 23.31	58.71	17 46 11.3	3 6.5	0.999917	22 6	7 43
	18	3 44 22.02	+58.15	17 49 17.8	+3 2.8	0.999241	21 59	7 43
	20	3 45 20.17	57.56	+17 52 20.6	2 59.0	0.998527	21 52	7 44
	22	3 46 17.73	56.93	17 55 19.6	2 55.1	0.997775	21 45	7 44
	24	3 47 14.66	56.27	17 58 14.7	2 51.1	0.996986	21 38	7 44
	26	3 48 10.93	55.58	18 1 5.8	2 47.2	0.996161	21 31	7 45
	28	3 49 6.51	+54.86	18 3 53.0	+2 43.1	0.995300	21 24	7 45
	30	3 50 1.37	54.10	+18 6 36.1	2 39.1	0.994404	21 17	7 45
Juli	2	3 50 55.47	53.30	18 9 15.2	2 34.9	0.993472	21 10	7 46
	4	3 51 48.77	52.47	18 11 50.1	2 30.8	0.992506	21 3	7 46
	6	3 52 41.24	51.61	18 14 20.9	2 26.5	0.991505	20 56	7 46
	8	3 53 32.85	+50.71	18 16 47.4	+2 22.2	0.990471	20 49	7 46
	10	3 54 23.56	49.78	+18 19 9.6	2 17.9	0.989403	20 42	7 47
	12	3 55 13.34	48.80	18 21 27.5	2 13.4	0.988303	20 35	7 47
	14	3 56 2.14	47.77	18 23 40.9	2 8.9	0.987171	20 28	7 47
	16	3 56 49.91	46.71	18 25 49.8	2 4.4	0.986008	20 21	7 47
	18	3 57 36.62	+45.62	18 27 54.2	+1 59.8	0.984814	20 14	7 48
	20	3 58 22.24	44.49	+18 29 54.0	1 55.2	0.983591	20 7	7 48
	22	3 59 6.73	43.33	18 31 49.2	1 50.6	0.982339	20 0	7 48
	24	3 59 50.06	42.14	18 33 39.8	1 46.0	0.981060	19 53	7 48
	26	4 0 32.20	40.92	18 35 25.8	1 41.5	0.979754	19 45	7 48
	28	4 1 13.12	+39.67	18 37 7.3	+1 36.8	0.978422	19 38	7 49
	30	4 1 52.79	38.38	+18 38 44.1	1 32.2	0.977066	19 31	7 49
Aug.	1	4 2 31.17	37.06	18 40 16.3	1 27.5	0.975685	19 24	7 49
	3	4 3 8.23	35.71	18 41 43.8	1 22.7	0.974281	19 16	7 49
	5	4 3 43.94	34.32	18 43 6.5	1 18.0	0.972855	19 9	7 49
	7	4 4 18.26	+32.90	18 44 24.5	+1 13.1	0.971408	19 2	7 49
	9	4 4 51.16	31.44	+18 45 37.6	1 8.3	0.969940	18 55	7 49
	11	4 5 22.60	29.94	18 46 45.9	1 3.5	0.968453	18 47	7 50
	13	4 5 52.54	28.41	18 47 49.4	0 58.7	0.966949	18 40	7 50
	15	4 6 20.95	26.86	18 48 48.1	0 53.8	0.965429	18 32	7 50
	17	4 6 47.81		18 49 41.9		0.963894	18 25	7 50

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	′ ″		h m	h m
Aug. 15	4 6 20.95	+26.86	+18 48 48.1	+0 53.8	0.965429	18 32	7 50
17	4 6 47.81	25.27	18 49 41.9	0 49.0	0.963894	18 25	7 50
19	4 7 13.08	23.67	18 50 30.9	0 44.1	0.962346	18 17	7 50
21	4 7 36.75	22.04	18 51 15.0	0 39.3	0.960786	18 10	7 50
23	4 7 58.79	+20.40	18 51 54.3	+0 34.5	0.959216	18 2	7 50
25	4 8 19.19	18.73	+18 52 28.8	0 29.7	0.957638	17 55	7 50
27	4 8 37.92	17.04	18 52 58.5	0 24.9	0.956052	17 47	7 50
29	4 8 54.96	15.33	18 53 23.4	0 20.1	0.954460	17 40	7 50
31	4 9 10.29	13.60	18 53 43.5	0 15.3	0.952864	17 32	7 50
Sept. 2	4 9 23.89	+11.84	18 53 58.8	+0 10.5	0.951265	17 24	7 50
4	4 9 35.73	10.08	+18 54 9.3	0 5.7	0.949666	17 17	7 50
6	4 9 45.81	8.29	18 54 15.0	+0 0.9	0.948067	17 9	7 50
8	4 9 54.10	6.48	18 54 15.9	−0 3.8	0.946471	17 1	7 50
10	4 10 0.58	4.66	18 54 12.1	0 8.6	0.944880	16 54	7 50
12	4 10 5.24	+ 2.85	18 54 3.5	−0 13.3	0.943296	16 46	7 50
14	4 10 8.09	+ 1.02	+18 53 50.2	0 18.0	0.941720	16 38	7 50
16	4 10 9.11	− 0.79	18 53 32.2	0 22.6	0.940155	16 30	7 50
18	4 10 8.32	2.60	18 53 9.6	0 27.2	0.938604	16 22	7 50
20	4 10 5.72	4.41	18 52 42.4	0 31.7	0.937067	16 14	7 50
22	4 10 1.31	− 6.21	18 52 10.7	−0 36.2	0.935548	16 6	7 50
24	4 9 55.10	7.99	+18 51 34.5	0 40.6	0.934048	15 58	7 50
26	4 9 47.11	9.77	18 50 53.9	0 44.9	0.932569	15 50	7 50
28	4 9 37.34	11.53	18 50 9.0	0 49.2	0.931114	15 42	7 50
30	4 9 25.81	13.27	18 49 19.8	0 53.4	0.929684	15 34	7 50
Okt. 2	4 9 12.54	−15.00	18 48 26.4	−0 57.7	0.928281	15 26	7 50
4	4 8 57.54	16.71	+18 47 28.7	1 1.8	0.926908	15 18	7 50
6	4 8 40.83	18.39	18 46 26.9	1 5.9	0.925567	15 10	7 50
8	4 8 22.44	20.03	18 45 21.0	1 9.8	0.924260	15 1	7 49
10	4 8 2.41	21.64	18 44 11.2	1 13.5	0.922990	14 53	7 49
12	4 7 40.77	−23.21	18 42 57.7	−1 17.2	0.921759	14 45	7 49
14	4 7 17.56	24.71	+18 41 40.5	1 20.8	0.920569	14 37	7 49
16	4 6 52.85	26.17	18 40 19.7	1 24.2	0.919423	14 28	7 49
18	4 6 26.68	27.58	18 38 55.5	1 27.5	0.918322	14 20	7 49
20	4 5 59.10	28.93	18 37 28.0	1 30.5	0.917268	14 12	7 49
22	4 5 30.17	−30.21	18 35 57.5	−1 33.5	0.916263	14 3	7 48
24	4 4 59.96	31.44	+18 34 24.0	1 36.3	0.915309	13 55	7 48
26	4 4 28.52	32.60	18 32 47.7	1 38.9	0.914407	13 47	7 48
28	4 3 55.92	33.71	18 31 8.8	1 41.4	0.913560	13 38	7 48
30	4 3 22.21	34.75	18 29 27.4	1 43.7	0.912768	13 30	7 48
Nov. 1	4 2 47.46		18 27 43.7		0.912034	13 21	7 48

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	′ ″		h m	h m
Okt.	30	4 3 22.21	−34.75	+18 29 27.4	−1 43.7	0.912768	13 30	7 48
Nov.	1	4 2 47 46	35.72	18 27 43.7	1 45.8	0.912034	13 21	7 48
	3	4 2 11.74	36.61	18 25 57.9	1 47.7	0.911359	13 13	7 47
	5	4 1 35.13	37.41	18 24 10.2	1 49.3	0.910745	13 4	7 47
	7	4 0 57.72	−38.13	18 22 20.9	−1 50.8	0.910193	12 56	7 47
	9	4 0 19.59	38.76	+18 20 30.1	1 52.0	0.909705	12 47	7 47
	11	3 59 40.83	39.30	18 18 38.1	1 52.8	0.909281	12 39	7 47
	13	3 59 1.53	39.75	18 16 45.3	1 53.5	0.908923	12 30	7 46
	15	3 58 21.78	40.10	18 14 51.8	1 53.8	0.908631	12 22	7 46
	17	3 57 41.68	−40.36	18 12 58.0	−1 53.9	0.908405	12 13	7 46
	19	3 57 1.32	40.53	+18 11 4.1	1 53.8	0.908246	12 5	7 46
	21	3 56 20.79	40.61	18 9 10.3	1 53.4	0.908155	11 56	7 46
	23	3 55 40.18	40.59	18 7 16.9	1 52.8	0.908132	11 47	7 45
	25	3 54 59.59	40.50	18 5 24.1	1 51.8	0.908176	11 39	7 45
	27	3 54 19.09	−40.31	18 3 32.3	−1 50.6	0.908288	11 30	7 45
	29	3 53 38.78	40.03	+18 1 41.7	1 49.1	0.908468	11 22	7 45
Dez.	1	3 52 58.75	39.67	17 59 52.6	1 47.4	0.908715	11 13	7 45
	3	3 52 19.08	39.20	17 58 5.2	1 45.4	0.909028	11 5	7 44
	5	3 51 39.88	38.65	17 56 19.8	1 43.0	0.909408	10 56	7 44
	7	3 51 1.23	−38.01	17 54 36.8	−1 40.4	0.909853	10 48	7 44
	9	3 50 23.22	37.27	+17 52 56.4	1 37.4	0.910364	10 39	7 44
	11	3 49 45.95	36.44	17 51 19.0	1 34.2	0.910938	10 31	7 44
	13	3 49 9.51	35.54	17 49 44.8	1 30.7	0.911575	10 22	7 43
	15	3 48 33.97	34.54	17 48 14.1	1 27.0	0.912274	10 14	7 43
	17	3 47 59.43	−33.48	17 46 47.1	−1 23.1	0.913032	10 5	7 43
	19	3 47 25.95	32.35	+17 45 24.0	1 18.9	0.913849	9 57	7 43
	21	3 46 53.60	31.15	17 44 5.1	1 14.6	0.914722	9 48	7 43
	23	3 46 22.45	29.90	17 42 50.5	1 10.0	0.915649	9 40	7 43
	25	3 45 52.55	28.58	17 41 40.5	1 5.1	0.916630	9 32	7 43
	27	3 45 23.97	−27.21	17 40 35.4	−1 0.1	0.917662	9 23	7 42
	29	3 44 56.76	25.77	+17 39 35.3	0 55.0	0.918743	9 15	7 42
	31	3 44 30.99	24.28	17 38 40.3	0 49.6	0.919872	9 6	7 42
	33	3 44 6.71		17 37 50.7		0.921046	8 58	7 42

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Jan. 0	20 1 48.24	+28.50	−21 2 36.9	+82.6	1.315354	1 27	4 4
2	20 2 16.74	28.71	21 1 14.3	83.5	1.315591	1 19	4 4
4	20 2 45.45	28.90	20 59 50.8	84.2	1.315806	1 12	4 4
6	20 3 14.35	29.07	20 58 26.6	84.8	1.315997	1 5	4 5
8	20 3 43.42	+29.23	20 57 1.8	+85.5	1.316165	0 57	4 5
10	20 4 12.65	29.35	−20 55 36.3	86.1	1.316309	0 50	4 5
12	20 4 42.00	29.46	20 54 10.2	86.8	1.316430	0 42	4 5
14	20 5 11.46	29.53	20 52 43.4	87.2	1.316528	0 35	4 5
16	20 5 40.99	29.57	20 51 16.2	87.5	1.316602	0 28	4 5
18	20 6 10.56	+29.59	20 49 48.7	+87.8	1.316652	0 20	4 5
20	20 6 40.15	29.59	−20 48 20.9	88.1	1.316678	0 13	4 6
22	20 7 9.74	29.56	20 46 52.8	88.2	1.316680	0 5	4 6
24	20 7 39.30	29.49	20 45 24.6	88.2	1.316657	23 58	4 6
26	20 8 8.79	29.41	20 43 56.4	88.2	1.316611	23 51	4 6
28	20 8 38.20	+29.31	20 42 28.2	+88.1	1.316542	23 43	4 6
30	20 9 7.51	29.18	−20 41 0.1	87.9	1.316450	23 36	4 7
Febr. 1	20 9 36.69	29.02	20 39 32.2	87.6	1.316334	23 28	4 7
3	20 10 5.71	28.84	20 38 4.6	87.3	1.316194	23 21	4 7
5	20 10 34.55	28.64	20 36 37.3	86.9	1.316031	23 14	4 7
7	20 11 3.19	+28.41	20 35 10.4	+86.4	1.315845	23 6	4 7
9	20 11 31.60	28.17	−20 33 44.0	85.9	1.315636	22 59	4 7
11	20 11 59.77	27.89	20 32 18.1	85.2	1.315405	22 51	4 8
13	20 12 27.66	27.59	20 30 52.9	84.5	1.315152	22 44	4 8
15	20 12 55.25	27.27	20 29 28.4	83.7	1.314876	22 37	4 8
17	20 13 22.52	+26.93	20 28 4.7	+82.7	1.314578	22 29	4 8
19	20 13 49.45	26.56	−20 26 42.0	81.7	1.314258	22 22	4 8
21	20 14 16.01	26.18	20 25 20.3	80.7	1.313917	22 14	4 8
23	20 14 42.19	25.77	20 23 59.6	79.6	1.313555	22 7	4 8
25	20 15 7.96	25.33	20 22 40.0	78.3	1.313172	21 59	4 9
27	20 15 33.29	+24.88	20 21 21.7	+77.0	1.312770	21 52	4 9
29	20 15 58.17	24.41	−20 20 4.7	75.7	1.312348	21 44	4 9
März 2	20 16 22.58	23.92	20 18 49.0	74.3	1.311907	21 37	4 9
4	20 16 46.50	23.41	20 17 34.7	72.7	1.311447	21 29	4 9
6	20 17 9.91	22.88	20 16 22.0	71.1	1.310969	21 22	4 9
8	20 17 32.79	+22.34	20 15 10.9	+69.4	1.310472	21 14	4 9
10	20 17 55.13	21.77	−20 14 1.5	67.7	1.309958	21 7	4 10
12	20 18 16.90	21.17	20 12 53.8	65.8	1.309426	20 59	4 10
14	20 18 38.07	20.56	20 11 48.0	64.0	1.308879	20 52	4 10
16	20 18 58.63	19.95	20 10 44.0	62.1	1.308316	20 44	4 10
18	20 19 18.58		20 9 41.9		1.307737	20 37	4 10

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
März 16	20 18 58.63	+19.95	−20 10 44.0	+62.1	1.308316	20 44	4 10
18	20 19 18.58	19.30	20 9 41.9	60.0	1.307737	20 37	4 10
20	20 19 37.88	18.65	20 8 41.9	57.9	1.307143	20 29	4 10
22	20 19 56.53	17.98	20 7 44.0	55.7	1.306536	20 21	4 10
24	20 20 14.51	+17.29	20 6 48.3	+53.6	1.305916	20 14	4 10
26	20 20 31.80	16.59	−20 5 54.7	51.3	1.305282	20 6	4 10
28	20 20 48.39	15.89	20 5 3.4	48.9	1.304636	19 59	4 11
30	20 21 4.28	15.16	20 4 14.5	46.6	1.303979	19 51	4 11
April 1	20 21 19.44	14.43	20 3 27.9	44.2	1.303312	19 43	4 11
3	20 21 33.87	+13.68	20 2 43.7	+41.7	1.302634	19 36	4 11
5	20 21 47.55	12.93	−20 2 2.0	39.2	1.301947	19 28	4 11
7	20 22 0.48	12.16	20 1 22.8	36.6	1.301252	19 21	4 11
9	20 22 12.64	11.39	20 0 46.2	34.1	1.300549	19 13	4 11
11	20 22 24.03	10.60	20 0 12.1	31.4	1.299839	19 5	4 11
13	20 22 34.63	+ 9.80	19 59 40.7	+28.7	1.299122	18 58	4 11
15	20 22 44.43	9.00	−19 59 12.0	26.1	1.298400	18 50	4 11
17	20 22 53.43	8.20	19 58 45.9	23.4	1.297674	18 42	4 11
19	20 23 1.63	7.38	19 58 22.5	20.6	1.296943	18 34	4 11
21	20 23 9.01	6.55	19 58 1.9	17.8	1.296208	18 26	4 11
23	20 23 15.56	+ 5.73	19 57 44.1	+15.0	1.295472	18 19	4 11
25	20 23 21.29	4.90	−19 57 29.1	12.3	1.294734	18 11	4 11
27	20 23 26.19	4.07	19 57 16.8	9.5	1.293995	18 3	4 11
29	20 23 30.26	3.25	19 57 7.3	6.7	1.293256	17 55	4 11
Mai 1	20 23 33.51	2.42	19 57 0.6	3.9	1.292519	17 48	4 11
3	20 23 35.93	+ 1.60	19 56 56.7	+ 1.2	1.291784	17 40	4 11
5	20 23 37.53	+ 0.78	−19 56 55.5	− 1.7	1.291052	17 32	4 11
7	20 23 38.31	− 0.05	19 56 57.2	4.4	1.290323	17 24	4 11
9	20 23 38.26	0.87	19 57 1.6	7.2	1.289600	17 16	4 11
11	20 23 37.39	1.68	19 57 8.8	9.9	1.288882	17 8	4 11
13	20 23 35.71	− 2.50	19 57 18.7	−12.7	1.288169	17 0	4 11
15	20 23 33.21	3.30	−19 57 31.4	15.4	1.287464	16 52	4 11
17	20 23 29.91	4.10	19 57 46.8	18.1	1.286768	16 44	4 11
19	20 23 25.81	4.89	19 58 4.9	20.7	1.286080	16 36	4 11
21	20 23 20.92	5.67	19 58 25.6	23.3	1.285401	16 28	4 11
23	20 23 15.25	− 6.43	19 58 48.9	−25.8	1.284733	16 20	4 11
25	20 23 8.82	7.19	−19 59 14.7	28.3	1.284077	16 12	4 11
27	20 23 1.63	7.93	19 59 43.0	30.7	1.283433	16 4	4 11
29	20 22 53.70	8.66	20 0 13.7	33.1	1.282801	15 56	4 11
31	20 22 45.04	9.37	20 0 46.8	35.3	1.282184	15 48	4 11
Juni 2	20 22 35.67		20 1 22.1		1.281582	15 40	4 11

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Mai 31	20 22 45.04	−9.37	−20 0 46.8	−35.3	1.282184	15 48	4 11
Juni 2	20 22 35.67	10.07	20 1 22.1	37.5	1.281582	15 40	4 11
4	20 22 25.60	10.75	20 1 59.6	39.7	1.280996	15 32	4 11
6	20 22 14.85	11.42	20 2 39.3	41.9	1.280425	15 24	4 11
8	20 22 3.43	−12.08	20 3 21.2	−43.9	1.279871	15 16	4 11
10	20 21 51.35	12.70	−20 4 5.1	45.8	1.279336	15 8	4 11
12	20 21 38.65	13.32	20 4 50.9	47.8	1.278819	15 0	4 11
14	20 21 25.33	13.91	20 5 38.7	49.6	1.278320	14 52	4 10
16	20 21 11.42	14.47	20 6 28.3	51.2	1.277842	14 44	4 10
18	20 20 56.95	−15.01	20 7 19.5	−52.8	1.277385	14 36	4 10
20	20 20 41.94	15.53	−20 8 12.3	54.4	1.276949	14 28	4 10
22	20 20 26.41	16.02	20 9 6.7	55.9	1.276534	14 19	4 10
24	20 20 10.39	16.49	20 10 2.6	57.1	1.276142	14 11	4 10
26	20 19 53.90	16.92	20 10 59.7	58.3	1.275773	14 3	4 10
28	20 19 36.98	−17.33	20 11 58.0	−59.5	1.275428	13 55	4 10
30	20 19 19.65	17.72	−20 12 57.5	60.5	1.275106	13 47	4 10
Juli 2	20 19 1.93	18.07	20 13 58.0	61.4	1.274809	13 39	4 10
4	20 18 43.86	18.40	20 14 59.4	62.2	1.274537	13 30	4 9
6	20 18 25.46	18.70	20 16 1.6	63.0	1.274290	13 22	4 9
8	20 18 6.76	−18.97	20 17 4.6	−63.6	1.274068	13 14	4 9
10	20 17 47.79	19.22	−20 18 8.2	64.0	1.273872	13 6	4 9
12	20 17 28.57	19.42	20 19 12.2	64.4	1.273703	12 58	4 9
14	20 17 9.15	19.60	20 20 16.6	64.8	1.273560	12 49	4 9
16	20 16 49.55	19.74	20 21 21.4	65.1	1.273444	12 41	4 9
18	20 16 29.81	−19.85	20 22 26.5	−65.0	1.273355	12 33	4 9
20	20 16 9.96	19.92	−20 23 31.5	64.9	1.273294	12 25	4 8
22	20 15 50.04	19.97	20 24 36.4	64.9	1.273260	12 17	4 8
24	20 15 30.07	19.98	20 25 41.3	64.6	1.273253	12 8	4 8
26	20 15 10.09	19.95	20 26 45.9	64.1	1.273273	12 0	4 8
28	20 14 50.14	−19.89	20 27 50.0	−63.6	1.273320	11 52	4 8
30	20 14 30.25	19.81	−20 28 53.6	63.1	1.273395	11 44	4 8
Aug. 1	20 14 10.44	19.69	20 29 56.7	62.5	1.273497	11 35	4 8
3	20 13 50.75	19.53	20 30 59.2	61.7	1.273626	11 27	4 8
5	20 13 31.22	19.35	20 32 0.9	60.8	1.273782	11 19	4 8
7	20 13 11.87	−19.14	20 33 1.7	−59.9	1.273964	11 11	4 7
9	20 12 52.73	18.89	−20 34 1.6	58.9	1.274173	11 3	4 7
11	20 12 33.84	18.62	20 35 0.5	57.7	1.274409	10 54	4 7
13	20 12 15.22	18.30	20 35 58.2	56.5	1.274670	10 46	4 7
15	20 11 56.92	17.96	20 36 54.7	55.2	1.274957	10 38	4 7
17	20 11 38.96		20 37 49.9		1.275269	10 30	4 7

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tagbogen
	h m s	s	° ′ ″	″		h m	h m
Aug. 15	20 11 56.92	−17.96	−20 36 54.7	−55.2	1.274957	10 38	4 7
17	20 11 38.96	17.58	20 37 49.9	53.7	1.275269	10 30	4 7
19	20 11 21.38	17.17	20 38 43.6	52.1	1.275606	10 22	4 7
21	20 11 4.21	16.74	20 39 35.7	50.7	1.275967	10 13	4 7
23	20 10 47.47	−16.29	20 40 26.4	−49.0	1.276352	10 5	4 7
25	20 10 31.18	15.80	−20 41 15.4	47.3	1.276760	9 57	4 7
27	20 10 15.38	15.28	20 42 2.7	45.5	1.277191	9 49	4 6
29	20 10 0.10	14.75	20 42 48.2	43.6	1.277644	9 41	4 6
31	20 9 45.35	14.18	20 43 31.8	41.8	1.278118	9 33	4 6
Sept. 2	20 9 31.17	−13.60	20 44 13.6	−39.8	1.278613	9 25	4 6
4	20 9 17.57	12.99	−20 44 53.4	37.7	1.279129	9 16	4 6
6	20 9 4.58	12.36	20 45 31.1	35.6	1.279664	9 8	4 6
8	20 8 52.22	11.69	20 46 6.7	33.6	1.280218	9 0	4 6
10	20 8 40.53	11.02	20 46 40.3	31.4	1.280790	8 52	4 6
12	20 8 29.51	−10.33	20 47 11.7	−29.1	1.281381	8 44	4 6
14	20 8 19.18	9.62	−20 47 40.8	26.7	1.281987	8 36	4 6
16	20 8 9.56	8.88	20 48 7.5	24.5	1.282609	8 28	4 6
18	20 8 0.68	8.13	20 48 32.0	22.1	1.283247	8 20	4 6
20	20 7 52.55	7.36	20 48 54.1	19.7	1.283899	8 12	4 6
22	20 7 45.19	− 6.59	20 49 13.8	−17.2	1.284563	8 4	4 6
24	20 7 38.60	5.80	−20 49 31.0	14.8	1.285239	7 56	4 6
26	20 7 32.80	5.00	20 49 45.8	12.4	1.285928	7 48	4 6
28	20 7 27.80	4.20	20 49 58.2	9.8	1.286628	7 40	4 6
30	20 7 23.60	3.38	20 50 8.0	7.3	1.287337	7 32	4 6
Okt. 2	20 7 20.22	− 2.55	20 50 15.3	− 4.8	1.288054	7 24	4 5
4	20 7 17.67	1.71	−20 50 20.1	− 2.2	1.288780	7 16	4 5
6	20 7 15.96	0.87	20 50 22.3	+ 0.3	1.289514	7 8	4 5
8	20 7 15.09	− 0.02	20 50 22.0	2.9	1.290254	7 0	4 5
10	20 7 15.07	+ 0.83	20 50 19.1	5.5	1.290999	6 53	4 5
12	20 7 15.90	+ 1.69	20 50 13.6	+ 8.1	1.291749	6 45	4 6
14	20 7 17.59	2.54	−20 50 5.5	10.7	1.292503	6 37	4 6
16	20 7 20.13	3.40	20 49 54.8	13.3	1.293259	6 29	4 6
18	20 7 23.53	4.26	20 49 41.5	15.8	1.294016	6 21	4 6
20	20 7 27.79	5.11	20 49 25.7	18.5	1.294775	6 13	4 6
22	20 7 32.90	+ 5.97	20 49 7.2	+21.0	1.295534	6 6	4 6
24	20 7 38.87	6.81	−20 48 46.2	23.5	1.296291	5 58	4 6
26	20 7 45.68	7.65	20 48 22.7	26.1	1.297046	5 50	4 6
28	20 7 53.33	8.49	20 47 56.6	28.6	1.297799	5 42	4 6
30	20 8 1.82	9.31	20 47 28.0	31.1	1.298549	5 34	4 6
Nov. 1	20 8 11.13		20 46 56.9		1.299294	5 27	4 6

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Okt. 30	20 8 1.82	+ 9.31	−20 47 28.0	+31.1	1.298549	5 34	4 6
Nov. 1	20 8 11.13	10.14	20 46 56.9	33.6	1.299294	5 27	4 6
3	20 8 21.27	10.95	20 46 23.3	36.2	1.300034	5 19	4 6
5	20 8 32.22	11.76	20 45 47.1	38.7	1.300768	5 11	4 6
7	20 8 43.98	+12.56	20 45 8.4	+41.1	1.301495	5 4	4 6
9	20 8 56.54	13.34	−20 44 27.3	43.5	1.302215	4 56	4 6
11	20 9 9.88	14.12	20 43 43.8	45.8	1.302927	4 48	4 6
13	20 9 24.00	14.88	20 42 58.0	48.3	1.303629	4 41	4 6
15	20 9 38.88	15.63	20 42 9.7	50.6	1.304321	4 33	4 6
17	20 9 54.51	+16.35	20 41 19.1	+52.8	1.305002	4 25	4 6
19	20 10 10.86	17.07	−20 40 26.3	55.1	1.305671	4 18	4 7
21	20 10 27.93	17.77	20 39 31.2	57.3	1.306329	4 10	4 7
23	20 10 45.70	18.46	20 38 33.9	59.4	1.306974	4 3	4 7
25	20 11 4.16	19.13	20 37 34.5	61.5	1.307605	3 55	4 7
27	20 11 23.29	+19.77	20 36 33.0	+63.7	1.308222	3 47	4 7
29	20 11 43.06	20.41	−20 35 29.3	65.7	1.308824	3 40	4 7
Dez. 1	20 12 3.47	21.02	20 34 23.6	67.7	1.309411	3 32	4 7
3	20 12 24.49	21.62	20 33 15.9	69.6	1.309982	3 25	4 7
5	20 12 46.11	22.19	20 32 6.3	71.6	1.310536	3 17	4 8
7	20 13 8.30	+22.75	20 30 54.7	+73.5	1.311074	3 10	4 8
9	20 13 31.05	23.29	−20 29 41.2	75.2	1.311594	3 2	4 8
11	20 13 54.34	23.80	20 28 26.0	76.9	1.312095	2 55	4 8
13	20 14 18.14	24.29	20 27 9.1	78.7	1.312578	2 47	4 8
15	20 14 42.43	24.75	20 25 50.4	80.3	1.313042	2 40	4 8
17	20 15 7.18	+25.21	20 24 30.1	+81.8	1.313486	2 32	4 8
19	20 15 32.39	25.64	−20 23 8.3	83.4	1.313910	2 25	4 9
21	20 15 58.03	26.03	20 21 44.9	84.8	1.314314	2 17	4 9
23	20 16 24.06	26.40	20 20 20.1	86.2	1.314697	2 10	4 9
25	20 16 50.46	26.75	20 18 53.9	87.4	1.315059	2 2	4 9
27	20 17 17.21	+27.07	20 17 26.5	+88.7	1.315399	1 55	4 9
29	20 17 44.28	27.39	−20 15 57.8	89.9	1.315718	1 48	4 9
31	20 18 11.67	27.68	20 14 27.9	91.0	1.316015	1 40	4 9
33	20 18 39.35		20 12 56.9		1.316289	1 33	4 10

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
Jan. 0	7 37 57.11	−13.87	+20 57 13.0	+33.2	1.462653	13 3	8 4
2	7 37 43.24	14.01	20 57 46.2	33.6	1.462537	12 55	8 4
4	7 37 29.23	14.12	20 58 19.8	33.8	1.462439	12 47	8 4
6	7 37 15.11	14.21	20 58 53.6	34.1	1.462359	12 39	8 5
8	7 37 0.90	−14.28	20 59 27.7	+34.2	1.462298	12 30	8 5
10	7 36 46.62	14.32	+21 0 1.9	34.4	1.462255	12 22	8 5
12	7 36 32.30	14.34	21 0 36.3	34.5	1.462231	12 14	8 5
14	7 36 17.96	14.33	21 1 10.8	34.6	1.462225	12 6	8 5
16	7 36 3.63	14.31	21 1 45.4	34.4	1.462238	11 58	8 5
18	7 35 49.32	−14.25	21 2 19.8	+34.2	1.462270	11 50	8 5
20	7 35 35.07	14.18	+21 2 54.0	34.0	1.462321	11 42	8 5
22	7 35 20.89	14.08	21 3 28.0	33.9	1.462390	11 34	8 5
24	7 35 6.81	13.96	21 4 1.9	33.6	1.462478	11 25	8 5
26	7 34 52.85	13.81	21 4 35.5	33.3	1.462584	11 17	8 5
28	7 34 39.04	−13.65	21 5 8.8	+33.0	1.462708	11 9	8 5
30	7 34 25.39	13.46	+21 5 41.8	32.6	1.462851	11 1	8 5
Febr. 1	7 34 11.93	13.24	21 6 14.4	32.1	1.463011	10 53	8 5
3	7 33 58.69	13.01	21 6 46.5	31.5	1.463189	10 45	8 5
5	7 33 45.68	12.76	21 7 18.0	31.0	1.463383	10 37	8 6
7	7 33 32.92	−12.48	21 7 49.0	+30.4	1.463594	10 29	8 6
9	7 33 20.44	12.19	+21 8 19.4	29.7	1.463822	10 21	8 6
11	7 33 8.25	11.88	21 8 49.1	29.0	1.464066	10 13	8 6
13	7 32 56.37	11.54	21 9 18.1	28.4	1.464326	10 4	8 6
15	7 32 44.83	11.19	21 9 46.5	27.6	1.464602	9 56	8 6
17	7 32 33.64	−10.82	21 10 14.1	+26.7	1.464893	9 48	8 6
19	7 32 22.82	10.43	+21 10 40.8	25.9	1.465198	9 40	8 6
21	7 32 12.39	10.02	21 11 6.7	25.1	1.465517	9 32	8 6
23	7 32 2.37	9.60	21 11 31.8	24.1	1.465851	9 24	8 6
25	7 31 52.77	9.17	21 11 55.9	23.2	1.466198	9 16	8 6
27	7 31 43.60	−8.72	21 12 19.1	+22.2	1.466557	9 8	8 6
29	7 31 34.88	8.26	+21 12 41.3	21.2	1.466928	9 0	8 6
März 2	7 31 26.62	7.78	21 13 2.5	20.3	1.467311	8 52	8 6
4	7 31 18.84	7.30	21 13 22.8	19.2	1.467705	8 44	8 6
6	7 31 11.54	6.80	21 13 42.0	18.1	1.468109	8 36	8 6
8	7 31 4.74	−6.30	21 14 0.1	+17.1	1.468524	8 28	8 6
10	7 30 58.44	5.79	+21 14 17.2	15.9	1.468949	8 20	8 6
12	7 30 52.65	5.26	21 14 33.1	14.8	1.469383	8 12	8 6
14	7 30 47.39	4.73	21 14 47.9	13.6	1.469824	8 4	8 6
16	7 30 42.66	4.19	21 15 1.5	12.6	1.470273	7 56	8 6
18	7 30 38.47		21 15 14.1		1.470730	7 48	8 6

Wahrer geozentrischer Ort.

0h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
	h m s	s	° ′ ″	″		h m	h m
März 16	7 30 42.66	− 4.19	+21 15 1.5	+12.6	1.470273	7 56	8 6
18	7 30 38.47	3.63	21 15 14.1	11.4	1.470730	7 48	8 6
20	7 30 34.84	3.07	21 15 25.5	10.2	1.471194	7 40	8 6
22	7 30 31.77	2.51	21 15 35.7	9.0	1.471663	7 32	8 7
24	7 30 29.26	− 1.95	21 15 44.7	+ 7.8	1.472137	7 24	8 7
26	7 30 27.31	1.38	+21 15 52.5	6.6	1.472616	7 16	8 7
28	7 30 25.93	0.82	21 15 59.1	5.3	1.473099	7 9	8 7
30	7 30 25.11	− 0.24	21 16 4.4	4.1	1.473585	7 1	8 7
April 1	7 30 24.87	+ 0.32	21 16 8.5	2.8	1.474074	6 53	8 7
3	7 30 25.19	+ 0.89	21 16 11.3	+ 1.6	1.474566	6 45	8 7
5	7 30 26.08	1.46	+21 16 12.9	+ 0.4	1.475060	6 37	8 7
7	7 30 27.54	2.03	21 16 13.3	− 0.9	1.475554	6 29	8 7
9	7 30 29.57	2.60	21 16 12.4	2.2	1.476049	6 21	8 7
11	7 30 32.17	3.17	21 16 10.2	3.5	1.476544	6 13	8 7
13	7 30 35.34	+ 3.74	21 16 6.7	− 4.6	1.477039	6 6	8 7
15	7 30 39.08	4.30	+21 16 2.1	5.8	1.477532	5 58	8 7
17	7 30 43.38	4.85	21 15 56.3	7.0	1.478023	5 50	8 7
19	7 30 48.23	5.41	21 15 49.3	8.2	1.478513	5 42	8 7
21	7 30 53.64	5.95	21 15 41.1	9.5	1.479000	5 34	8 7
23	7 30 59.59	+ 6.49	21 15 31.6	−10.8	1.479483	5 27	8 7
25	7 31 6.08	7.02	+21 15 20.8	11.9	1.479962	5 19	8 6
27	7 31 13.10	7.55	21 15 8.9	13.1	1.480437	5 11	8 6
29	7 31 20.65	8.07	21 14 55.8	14.3	1.480907	5 3	8 6
Mai 1	7 31 28.72	8.58	21 14 41.5	15.5	1.481371	4 55	8 6
3	7 31 37.30	+ 9.08	21 14 26.0	−16.6	1.481830	4 48	8 6
5	7 31 46.38	9.57	+21 14 9.4	17.8	1.482282	4 40	8 6
7	7 31 55.95	10.06	21 13 51.6	18.9	1.482727	4 32	8 6
9	7 32 6.01	10.52	21 13 32.7	20.1	1.483164	4 24	8 6
11	7 32 16.53	10.99	21 13 12.6	21.2	1.483594	4 17	8 6
13	7 32 27.52	+11.44	21 12 51.4	−22.3	1.484016	4 9	8 6
15	7 32 38.96	11.89	+21 12 29.1	23.3	1.484429	4 1	8 6
17	7 32 50.85	12.32	21 12 5.8	24.4	1.484833	3 54	8 6
19	7 33 3.17	12.74	21 11 41.4	25.5	1.485228	3 46	8 6
21	7 33 15.91	13.15	21 11 15.9	26.5	1.485613	3 38	8 6
23	7 33 29.06	+13.54	21 10 49.4	−27.5	1.485988	3 31	8 6
25	7 33 42.60	13.92	+21 10 21.9	28.4	1.486352	3 23	8 6
27	7 33 56.52	14.29	21 9 53.5	29.4	1.486705	3 15	8 6
29	7 34 10.81	14.64	21 9 24.1	30.3	1.487047	3 8	8 6
31	7 34 25.45	14.99	21 8 53.8	31.2	1.487378	3 0	8 6
Juni 2	7 34 40.44		21 8 22.6		1.487696	2 52	8 6

Wahrer geozentrischer Ort.

0^h Mittl. Zeit	AR. h m s	Diff. s	Dekl. ° ′ ″	Diff. ″	Log. Δ	Östl. Stunden-Winkel h m	Halber Tag-bogen h m
Mai 31	7 34 25.45	+14.99	+21 8 53.8	−31.2	1.487378	3 0	8 6
Juni 2	7 34 40.44	15.31	21 8 22.6	32.1	1.487696	2 52	8 6
4	7 34 55.75	15.63	21 7 50.5	33.0	1.488002	2 45	8 6
6	7 35 11.38	15.93	21 7 17.5	33.9	1.488297	2 37	8 6
8	7 35 27.31	+16.23	21 6 43.6	−34.6	1.488579	2 30	8 5
10	7 35 43.54	16.50	+21 6 9.0	35.4	1.488848	2 22	8 5
12	7 36 0.04	16.76	21 5 33.6	36.2	1.489103	2 14	8 5
14	7 36 16.80	17.00	21 4 57.4	37.0	1.489345	2 7	8 5
16	7 36 33.80	17.24	21 4 20.4	37.7	1.489574	1 59	8 5
18	7 36 51.04	+17.45	21 3 42.7	−38.3	1.489788	1 52	8 5
20	7 37 8.49	17.65	+21 3 4.4	39.0	1.489988	1 44	8 5
22	7 37 26.14	17.83	21 2 25.4	39.6	1.490174	1 36	8 5
24	7 37 43.97	18.00	21 1 45.8	40.1	1.490346	1 29	8 5
26	7 38 1.97	18.15	21 1 5.7	40.7	1.490503	1 21	8 5
28	7 38 20.12	+18.28	21 0 25.0	−41.3	1.490645	1 14	8 5
30	7 38 38.40	18.41	+20 59 43.7	41.8	1.490773	1 6	8 5
Juli 2	7 38 56.81	18.51	20 59 1.9	42.2	1.490886	0 58	8 5
4	7 39 15.32	18.60	20 58 19.7	42.6	1.490984	0 51	8 4
6	7 39 33.92	18.68	20 57 37.1	42.9	1.491067	0 43	8 4
8	7 39 52.60	+18.74	20 56 54.2	−43.3	1.491135	0 36	8 4
10	7 40 11.34	18.78	+20 56 10.9	43.6	1.491188	0 28	8 4
12	7 40 30.12	18.81	20 55 27.3	43.9	1.491225	0 21	8 4
14	7 40 48.93	18.82	20 54 43.4	44.2	1.491247	0 13	8 4
16	7 41 7.75	18.82	20 53 59.2	44.3	1.491254	0 5	8 4
18	7 41 26.57	+18.80	20 53 14.9	−44.4	1.491245	23 58	8 4
20	7 41 45.37	18.76	+20 52 30.5	44.5	1.491221	23 50	8 4
22	7 42 4.13	18.71	20 51 46.0	44.7	1.491181	23 43	8 4
24	7 42 22.84	18.64	20 51 1.3	44.7	1.491126	23 35	8 4
26	7 42 41.48	18.55	20 50 16.6	44.6	1.491056	23 28	8 4
28	7 43 0.03	+18.46	20 49 32.0	−44.6	1.490971	23 20	8 3
30	7 43 18.49	18.34	+20 48 47.4	44.6	1.490871	23 12	8 3
Aug. 1	7 43 36.83	18.21	20 48 2.8	44.5	1.490755	23 5	8 3
3	7 43 55.04	18.07	20 47 18.3	44.2	1.490625	22 57	8 3
5	7 44 13.11	17.91	20 46 34.1	44.0	1.490480	22 50	8 3
7	7 44 31.02	+17.73	20 45 50.1	−43.8	1.490320	22 42	8 3
9	7 44 48.75	17.54	+20 45 6.3	43.5	1.490146	22 35	8 3
11	7 45 6.29	17.34	20 44 22.8	43.1	1.489957	22 27	8 3
13	7 45 23.63	17.11	20 43 39.7	42.8	1.489754	22 19	8 3
15	7 45 40.74	16.88	20 42 56.9	42.4	1.489537	22 12	8 3
17	7 45 57.62		20 42 14.5		1.489305	22 4	8 3

Wahrer geozentrischer Ort.

0h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
Aug.	15	7 45 40.74	+16.88	+20 42 56.9	−42.4	1.489537	22 12	8 3
	17	7 45 57.62	16.62	20 42 14.5	41.9	1.489305	22 4	8 3
	19	7 46 14.24	16.35	20 41 32.6	41.4	1.489060	21 57	8 3
	21	7 46 30.59	16.07	20 40 51.2	40.8	1.488802	21 49	8 3
	23	7 46 46.66	+15.77	20 40 10.4	−40.2	1.488530	21 41	8 2
	25	7 47 2.43	15.47	+20 39 30.2	39.6	1.488245	21 34	8 2
	27	7 47 17.90	15.14	20 38 50.6	38.9	1.487947	21 26	8 2
	29	7 47 33.04	14.80	20 38 11.7	38.2	1.487637	21 18	8 2
	31	7 47 47.84	14.45	20 37 33.5	37.4	1.487315	21 11	8 2
Sept.	2	7 48 2.29	+14.09	20 36 56.1	−36.6	1.486981	21 3	8 2
	4	7 48 16.38	13.72	+20 36 19.5	35.7	1.486635	20 55	8 2
	6	7 48 30.10	13.33	20 35 43.8	34.8	1.486278	20 48	8 2
	8	7 48 43.43	12.93	20 35 9.0	33.9	1.485910	20 40	8 2
	10	7 48 56.36	12.51	20 34 35.1	32.9	1.485531	20 32	8 2
	12	7 49 8.87	+12.08	20 34 2.2	−31.9	1.485142	20 25	8 2
	14	7 49 20.95	11.64	+20 33 30.3	30.9	1.484743	20 17	8 2
	16	7 49 32.59	11.20	20 32 59.4	29.8	1.484335	20 9	8 2
	18	7 49 43.79	10.74	20 32 29.6	28.7	1.483918	20 2	8 1
	20	7 49 54.53	10.26	20 32 0.9	27.5	1.483492	19 54	8 1
	22	7 50 4.79	+ 9.79	20 31 33.4	−26.3	1.483058	19 46	8 1
	24	7 50 14.58	9.29	+20 31 7.1	25.2	1.482616	19 39	8 1
	26	7 50 23.87	8.80	20 30 41.9	23.9	1.482167	19 31	8 1
	28	7 50 32.67	8.28	20 30 18.0	22.6	1.481711	19 23	8 1
	30	7 50 40.95	7.76	20 29 55.4	21.3	1.481249	19 15	8 1
Okt.	2	7 50 48.71	+ 7.25	20 29 34.1	−20.0	1.480781	19 8	8 1
	4	7 50 55.96	6.72	+20 29 14.1	18.6	1.480307	19 0	8 1
	6	7 51 2.68	6.19	20 28 55.5	17.2	1.479828	18 52	8 1
	8	7 51 8.87	5.64	20 28 38.3	15.8	1.479345	18 44	8 1
	10	7 51 14.51	5.09	20 28 22.5	14.3	1.478859	18 36	8 1
	12	7 51 19.60	+ 4.53	20 28 8.2	−12.9	1.478369	18 29	8 1
	14	7 51 24.13	3.97	+20 27 55.3	11.4	1.477876	18 21	8 1
	16	7 51 28.10	3.40	20 27 43.9	9.9	1.477382	18 13	8 1
	18	7 51 31.50	2.84	20 27 34.0	8.4	1.476886	18 5	8 1
	20	7 51 34.34	2.26	20 27 25.6	6.9	1.476389	17 57	8 1
	22	7 51 36.60	+ 1.70	20 27 18.7	− 5.4	1.475891	17 50	8 1
	24	7 51 38.30	1.12	+20 27 13.3	3.9	1.475394	17 42	8 1
	26	7 51 39.42	+ 0.56	20 27 9.4	2.3	1.474898	17 34	8 1
	28	7 51 39.98	− 0.01	20 27 7.1	− 0.8	1.474404	17 26	8 1
	30	7 51 39.97	0.58	20 27 6.3	+ 0.7	1.473911	17 18	8 1
Nov.	1	7 51 39.39		20 27 7.0		1.473421	17 10	8 1

Wahrer geozentrischer Ort.

0^h Mittl. Zeit		AR.	Diff.	Dekl.	Diff.	Log. Δ	Östl. Stunden-Winkel	Halber Tag-bogen
		h m s	s	° ′ ″	″		h m	h m
Okt.	30	7 51 39.97	− 0.58	+20 27 6.3	+ 0.7	1.473911	17 18	8 1
Nov.	1	7 51 39.39	1.15	20 27 7.0	2.2	1.473421	17 10	8 1
	3	7 51 38.24	1.71	20 27 9.2	3.8	1.472934	17 2	8 1
	5	7 51 36.53	2.28	20 27 13.0	5.4	1.472451	16 54	8 1
	7	7 51 34.25	− 2.85	20 27 18.4	+ 6.8	1.471972	16 46	8 1
	9	7 51 31.40	3.41	+20 27 25.2	8.3	1.471499	16 39	8 1
	11	7 51 27.99	3.96	20 27 33.5	9.8	1.471031	16 31	8 1
	13	7 51 24.03	4.51	20 27 43.3	11.3	1.470569	16 23	8 1
	15	7 51 19.52	5.05	20 27 54.6	12.7	1.470115	16 15	8 1
	17	7 51 14.47	− 5.57	20 28 7.3	+14.2	1.469669	16 7	8 1
	19	7 51 8.90	6.09	+20 28 21.5	15.5	1.469231	15 59	8 1
	21	7 51 2.81	6.60	20 28 37.0	17.0	1.468801	15 51	8 1
	23	7 50 56.21	7.10	20 28 54.0	18.3	1.468380	15 43	8 1
	25	7 50 49.11	7.59	20 29 12.3	19.6	1.467970	15 35	8 1
	27	7 50 41.52	− 8.07	20 29 31.9	+20.9	1.467571	15 27	8 1
	29	7 50 33.45	8.52	+20 29 52.8	22.2	1.467182	15 19	8 1
Dez.	1	7 50 24.93	8.98	20 30 15.0	23.4	1.466805	15 11	8 1
	3	7 50 15.95	9.42	20 30 38.4	24.6	1.466440	15 3	8 1
	5	7 50 6.53	9.84	20 31 3.0	25.7	1.466088	14 55	8 1
	7	7 49 56.69	−10.26	20 31 28.7	+26.8	1.465749	14 47	8 1
	9	7 49 46.43	10.65	+20 31 55.5	27.8	1.465424	14 38	8 1
	11	7 49 35.78	11.03	20 32 23.3	28.9	1.465113	14 30	8 1
	13	7 49 24.75	11.38	20 32 52.2	29.8	1.464817	14 22	8 2
	15	7 49 13.37	11.72	20 33 22.0	30.8	1.464535	14 14	8 2
	17	7 49 1.65	−12.03	20 33 52.8	+31.6	1.464269	14 6	8 2
	19	7 48 49.62	12.33	+20 34 24.4	32.3	1.464019	13 58	8 2
	21	7 48 37.29	12.61	20 34 56.7	33.1	1.463786	13 50	8 2
	23	7 48 24.68	12.87	20 35 29.8	33.9	1.463569	13 42	8 2
	25	7 48 11.81	13.11	20 36 3.7	34.4	1.463369	13 34	8 2
	27	7 47 58.70	−13.32	20 36 38.1	+34.9	1.463186	13 26	8 2
	29	7 47 45.38	13.52	+20 37 13.0	35.4	1.463020	13 18	8 2
	31	7 47 31.86	13.70	20 37 48.4	35.9	1.462872	13 10	8 2
	33	7 47 18.16		20 38 24.3		1.462742	13 1	8 2

MERKUR 1912.

Mittlere Ekliptik und Äquinoktium 1910.0.

0h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite	0h Mittl. Zeit	Log. Rad. v.	Länge in d. Bahn	Red. a. d. Ekl.	Breite
Jan. 2	9.5294	138° 19'	0'	+7° 0'	Juli 5	9.5906	179° 40'	+13'	+5° 10'
7	9.5637	162 35	+10	+6 20	10	9.6193	198 7	+11	+3 24
12	9.5964	183 19	+13	+4 51	15	9.6417	214 33	+ 6	+1 32
17	9.6240	201 21	+10	+3 3	20	9.6574	229 35	− 1	−0 17
22	9.6452	217 28	+ 4	+1 11	25	9.6665	243 48	− 7	−1 59
27	9.6596	232 18	− 2	−0 37	30	9.6690	257 37	−11	−3 32
Febr. 1	9.6674	246 24	− 8	−2 17	Aug. 4	9.6650	271 29	−13	−4 53
6	9.6687	260 12	−12	−3 48	9	9.6544	285 50	−11	−5 58
11	9.6635	274 8	−13	−5 6	14	9.6372	301 8	− 7	−6 44
16	9.6517	288 37	−11	−6 9	19	9.6133	317 57	0	−7 0
21	9.6332	304 9	− 6	−6 49	24	9.5833	337 0	+ 8	−6 35
26	9.6081	321 20	+ 2	−6 59	29	9.5493	359 7	+13	−5 13
März 2	9.5772	340 53	+ 9	−6 25	Sept. 3	9.5163	24 59	+ 9	−2 39
7	9.5429	3 40	+13	−4 49	8	9.4930	54 32	− 3	+0 53
12	9.5109	30 16	+ 7	−2 3	13	9.4890	86 4	−13	+4 23
17	9.4906	60 23	− 6	+1 35	18	9.5060	116 39	− 9	+6 33
22	9.4907	91 58	−13	+4 55	23	9.5367	143 57	+ 3	+6 57
27	9.5111	122 4	− 7	+6 45	28	9.5711	167 23	+11	+6 3
April 1	9.5431	148 38	+ 5	+6 52	Okt. 3	9.6029	187 28	+13	+4 29
6	9.5774	171 23	+12	+5 48	8	9.6292	205 1	+ 9	+2 39
11	9.6083	190 56	+12	+4 9	13	9.6489	220 48	+ 3	+0 47
16	9.6334	208 5	+ 8	+2 18	18	9.6619	235 26	− 4	−1 0
21	9.6518	223 37	+ 2	+0 27	23	9.6683	249 26	− 9	−2 38
26	9.6636	238 6	− 5	−1 19	28	9.6682	263 13	−12	−4 6
Mai 1	9.6688	252 1	−10	−2 56	Nov. 2	9.6615	277 14	−13	−5 21
6	9.6674	265 49	−13	−4 22	7	9.6483	291 54	−10	−6 20
11	9.6595	279 55	−12	−5 34	12	9.6283	307 44	− 4	−6 54
16	9.6450	294 46	− 9	−6 28	17	9.6018	325 22	+ 4	−6 56
21	9.6238	310 53	− 3	−6 58	22	9.5698	345 34	+11	−6 10
26	9.5962	328 56	+ 5	−6 51	27	9.5354	9 8	+12	−4 19
31	9.5634	349 42	+12	−5 54	Dez. 2	9.5051	36 35	+ 5	−1 18
Juni 5	9.5291	13 59	+12	−3 50	7	9.4887	67 15	− 8	+2 23
10	9.5006	42 9	+ 2	−0 37	12	9.4936	98 46	−13	+5 29
15	9.4879	73 12	−10	+3 3	17	9.5174	128 12	− 4	+6 55
20	9.4969	104 32	−12	+5 53	22	9.5507	153 55	+ 7	+6 42
25	9.5233	133 20	− 2	+6 59	27	9.5846	175 54	+13	+5 28
30	9.5572	158 19	+ 9	+6 32	32	9.6144	194 51	+12	+3 45
Juli 5	9.5906	179 40	+13	+5 10	37	9.6380	211 36	+ 7	+1 53

$\Omega = 47^\circ\ 15'.7;\quad i = 7^\circ\ 0'.18;\quad m = \frac{1}{6000000}$

0h Mittl. Zeit	VENUS 1912. Mittl. Ekliptik und Äquin. 1910.0. Log. Radius v.	Länge in der Bahn	Red. auf d. Eklipt.	Breite	ERDE 1912. Mittl. Äqu. 1910.0. Log. Radius vect.	Länge
		° ′	′	° ′		° ′
Jan. 2	9.85695	167 2.9	+0.1	+3 23.6	9.99265	100 41.4
12	9.85754	183 13.5	+1.7	+3 14.3	9.99276	110 52.8
22	9.85826	199 21.2	+2.8	+2 49.8	9.99309	121 3.9
Febr. 1	9.85906	215 25.5	+3.0	+2 12.0	9.99360	131 13.6
11	9.85988	231 26.2	+2.3	+1 24.2	9.99434	141 21.4
21	9.86066	247 23.3	+0.9	+0 30.0	9.99525	151 27.3
März 2	9.86134	263 17.2	−0.8	−0 26.3	9.99626	161 30.2
12	9.86185	279 8.5	−2.2	−1 20.5	9.99742	171 30.1
22	9.86217	294 57.9	−3.0	−2 8.4	9.99864	181 27.0
April 1	9.86228	310 46.4	−2.8	−2 46.6	9.99986	191 20.2
11	9.86216	326 34.9	−1.9	−3 12.2	0.00112	201 10.0
21	9.86183	342 24.4	−0.4	−3 23.3	0.00233	210 56.8
Mai 1	9.86130	358 15.8	+1.3	−3 18.9	0.00344	220 40.2
11	9.86062	14 9.8	+2.5	−2 59.3	0.00449	230 20.6
21	9.85984	30 7.1	+3.0	−2 25.8	0.00538	239 58.8
31	9.85902	46 7.9	+2.6	−1 40.9	0.00610	249 34.5
Juni 10	9.85822	62 12.4	+1.4	−0 48.0	0.00668	259 8.5
20	9.85751	78 20.2	−0.3	+0 8.8	0.00704	268 41.6
30	9.85694	94 31.0	−1.8	+1 5.2	0.00720	278 13.6
Juli 10	9.85655	110 43.9	−2.8	+1 56.4	0.00718	287 45.5
20	9.85638	126 58.0	−2.9	+2 38.4	0.00694	297 18.1
30	9.85645	143 12.4	−2.1	+3 7.9	0.00649	306 51.1
Aug. 9	9.85675	159 25.9	−0.7	+3 22.3	0.00589	316 25.7
19	9.85725	175 37.7	+1.0	+3 20.7	0.00509	326 2.4
29	9.85791	191 46.8	+2.3	+3 3.1	0.00414	335 41.0
Sept. 8	9.85868	207 52.7	+3.0	+2 31.2	0.00310	345 22.5
18	9.85950	223 55.1	+2.7	+1 47.7	0.00193	355 7.1
28	9.86030	239 53.8	+1.6	+0 55.9	0.00069	4 54.6
Okt. 8	9.86103	255 49.1	0.0	+0 0.1	9.99946	14 45.7
18	9.86162	271 41.5	−1.6	−0 55.5	9.99821	24 40.4
28	9.86204	287 31.7	−2.7	−1 46.8	9.99700	34 38.0
Nov. 7	9.86225	303 20.6	−3.0	−2 30.0	9.99591	44 39.1
17	9.86224	319 9.0	−2.4	−3 1.9	9.99490	54 43.2
27	9.86201	334 57.9	−1.1	−3 20.0	9.99405	64 49.6
Dez. 7	9.86157	350 48.3	+0.5	−3 22.9	9.99341	74 58.3
17	9.86095	6 41.0	+2.0	−3 10.3	9.99294	85 8.6
27	9.86021	22 36.7	+2.9	−2 43.1	9.99268	95 19.7
37	9.85940	38 35.9	+2.9	−2 3.2	9.99268	105 31.3

Venus: ☊ = 75° 51′.8; $i = 3° 23'.6$; $m = \frac{1}{408000}$

Erde: $m = \frac{1}{329390}$

MARS 1912.

Mittlere Ekliptik und Äquinoktium 1910.0.

0^h Mittl. Zeit		Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite
Jan.	2	0.19122	81° 38.′1	—0.′8	+1° 0.′1
	12	0.19464	86 37.0	—0.9	+1 8.0
	22	0.19792	91 31.3	—0.9	+1 15.2
Febr.	1	0.20104	96 21.3	—0.9	+1 21.8
	11	0.20398	101 7.3	—0.9	+1 27.8
	21	0.20673	105 49.6	—0.8	+1 33.1
März	2	0.20927	110 28.4	—0.7	+1 37.7
	12	0.21159	115 4.1	—0.7	+1 41.6
	22	0.21369	119 37.1	—0.6	+1 44.8
April	1	0.21555	124 7.6	—0.4	+1 47.4
	11	0.21717	128 35.9	—0.3	+1 49.2
	21	0.21855	133 2.3	—0.2	+1 50.4
Mai	1	0.21968	137 27.3	0.0	+1 51.0
	11	0.22055	141 51.0	+0.1	+1 50.9
	21	0.22117	146 13.8	+0.2	+1 50.1
	31	0.22153	150 36.0	+0.4	+1 48.7
Juni	10	0.22163	154 57.9	+0.5	+1 46.7
	20	0.22147	159 19.9	+0.6	+1 44.0
	30	0.22105	163 42.2	+0.7	+1 40.8
Juli	10	0.22037	168 5.2	+0.8	+1 36.9
	20	0.21944	172 29.2	+0.8	+1 32.4
	30	0.21825	176 54.4	+0.9	+1 27.4
Aug.	9	0.21682	181 21.2	+0.9	+1 21.8
	19	0.21514	185 50.0	+0.9	+1 15.7
	29	0.21322	190 21.0	+0.9	+1 9.1
Sept.	8	0.21107	194 54.6	+0.8	+1 2.0
	18	0.20869	199 31.1	+0.8	+0 54.4
	28	0.20610	204 10.7	+0.7	+0 46.3
Okt.	8	0.20330	208 53.8	+0.6	+0 37.9
	18	0.20032	213 40.7	+0.5	+0 29.1
	28	0.19716	218 31.7	+0.3	+0 19.9
Nov.	7	0.19384	223 27.1	+0.2	+0 10.5
	17	0.19039	228 27.1	0.0	+0 0.8
	27	0.18682	233 32.0	—0.1	—0 9.1
Dez.	7	0.18315	238 42.1	—0.3	—0 19.0
	17	0.17942	243 57.5	—0.5	—0 28.9
	27	0.17565	249 18.3	—0.6	—0 38.8
	37	0.17188	254 44.7	—0.7	—0 48.5

$\Omega = 48° \, 51'.4; \quad i = 1° \, 51'.0; \quad m = \frac{1}{3093500}$

JUPITER 1912.

Mittlere Ekliptik und Äquinoktium 1910.0.

0h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
Jan. −8	0.730267	237° 51′ 45″.1	+26″.7	+0° 52′ 12″.2	+0″.5
2	0.730058	238 38 27.4	+26.6	+0 51 24.0	+0.4
12	0.729846	239 25 12.4	+26.5	+0 50 35.2	+0.3
22	0.729631	240 12 0.3	+26.3	+0 49 45.9	+0.2
Febr. 1	0.729413	240 58 51.0	+26.2	+0 48 55.9	+0.2
11	0.729192	241 45 44.4	+26.0	+0 48 5.4	+0.1
21	0.728969	242 32 40.7	+25.8	+0 47 14.3	0.0
März 2	0.728743	243 19 39.9	+25.6	+0 46 22.6	0.0
12	0.728514	244 6 42.1	+25.4	+0 45 30.3	0.0
22	0.728283	244 53 47.3	+25.2	+0 44 37.4	−0.1
April 1	0.728049	245 40 55.5	+24.9	+0 43 44.0	−0.1
11	0.727812	246 28 6.8	+24.6	+0 42 50.0	−0.2
21	0.727572	247 15 21.2	+24.3	+0 41 55.6	−0.2
Mai 1	0.727331	248 2 38.8	+23.9	+0 41 0.5	−0.3
11	0.727087	248 49 59.5	+23.6	+0 40 4.9	−0.3
21	0.726840	249 37 23.4	+23.2	+0 39 8.8	−0.4
31	0.726591	250 24 50.6	+22.9	+0 38 12.2	−0.4
Juni 10	0.726340	251 12 21.0	+22.5	+0 37 15.0	−0.5
20	0.726086	251 59 54.8	+22.1	+0 36 17.4	−0.5
30	0.725830	252 47 31.9	+21.6	+0 35 19.3	−0.6
Juli 10	0.725571	253 35 12.4	+21.1	+0 34 20.7	−0.6
20	0.725312	254 22 56.2	+20.7	+0 33 21.7	−0.7
30	0.725050	255 10 43.5	+20.2	+0 32 22.2	−0.7
Aug. 9	0.724786	255 58 34.4	+19.7	+0 31 22.3	−0.7
19	0.724519	256 46 28.8	+19.2	+0 30 21.9	−0.8
29	0.724251	257 34 26.7	+18.6	+0 29 21.1	−0.8
Sept. 8	0.723981	258 22 28.2	+18.1	+0 28 19.8	−0.9
18	0.723709	259 10 33.2	+17.5	+0 27 18.2	−1.0
28	0.723435	259 58 41.9	+17.0	+0 26 16.2	−1.0
Okt. 8	0.723159	260 46 54.2	+16.4	+0 25 13.7	−1.1
18	0.722881	261 35 10.2	+15.8	+0 24 10.9	−1.1
28	0.722602	262 23 29.9	+15.2	+0 23 7.8	−1.1
Nov. 7	0.722321	263 11 53.4	+14.6	+0 22 4.3	−1.2
17	0.722038	264 0 20.7	+13.9	+0 21 0.4	−1.2
27	0.721754	264 48 51.7	+13.3	+0 19 56.2	−1.3
Dez. 7	0.721468	265 37 26.5	+12.6	+0 18 51.7	−1.3
17	0.721181	266 26 5.2	+11.9	+0 17 46.9	−1.4
27	0.720893	267 14 47.7	+11.2	+0 16 41.7	−1.4
37	0.720604	268 3 34.1	+10.5	+0 15 36.3	−1.5

$\Omega = 99° \, 32' \, 41''.4; \quad i = 1° \, 18' \, 29''.7; \quad m = \frac{1}{1047.355}$

Mittlere Ekliptik und Äquinoktium 1910.0.

SATURN 1912.

0^h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1911 Dez. 13	0.961139	47° 53′ 30″.0	+74″.8	—2° 15′ 30″.4	—1″.2
1912 Jan. 22	0.960742	49 20 44.3	+77.9	—2 13 51.6	—1.4
März 2	0.960355	50 48 8.0	+80.8	—2 12 7.4	—1.5
April 11	0.959980	52 15 41.0	+83.5	—2 10 17.9	—1.6
Mai 21	0.959616	53 43 23.0	+86.0	—2 8 23.2	—1.8
Juni 30	0.959263	55 11 13.8	+88.2	—2 6 23.2	—1.9
Aug. 9	0.958923	56 39 13.2	+90.2	—2 4 18.0	—1.9
Sept. 18	0.958594	58 7 20.8	+92.0	—2 2 7.7	—2.0
Okt. 28	0.958278	59 35 36.4	+93.6	—1 59 52.4	—2.1
Dez. 7	0.957975	61 3 59.8	+94.9	—1 57 32.2	—2.2
47	0.957685	62 32 30.5	+95.9	—1 55 7.1	—2.3

$\Omega = 112° \; 52' \; 26''.8; \quad i = 2° \; 29' \; 31''.3; \quad m = \frac{1}{3501.6}$

URANUS 1912.

0^h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1911 Dez. 13	1.295440	298° 57′ 46″.0	—9″.4	—0° 32′ 58″.8	+3″.0
1912 Jan. 22	1.295569	299 24 21.2	—9.4	—0 33 13.8	+3.0
März 2	1.295697	299 50 55.7	—9.4	—0 33 28.8	+3.0
April 11	1.295824	300 17 29.4	—9.4	—0 33 43.6	+3.0
Mai 21	1.295951	300 44 2.2	—9.4	—0 33 58.3	+3.0
Juni 30	1.296076	301 10 34.2	—9.3	—0 34 12.8	+2.9
Aug. 9	1.296200	301 37 5.5	—9.3	—0 34 27.2	+2.9
Sept. 18	1.296323	302 3 36.0	—9.3	—0 34 41.5	+2.9
Okt. 28	1.296445	302 30 5.6	—9.3	—0 34 55.7	+2.9
Dez. 7	1.296566	302 56 34.5	—9.3	—0 35 9.7	+2.9
47	1.296686	303 23 2.5	—9.2	—0 35 23.6	+2.9

$\Omega = 73° \; 32'; \quad i = 0° \; 46' \; 22''; \quad m = \frac{1}{22869}$

NEPTUN 1912.

0^h Mittl. Zeit	Log. Radius vect.	Länge in der Bahn	Red. auf die Ekliptik	Breite	B_0
1911 Dez. 13	1.476705	112° 10′ 28″.7	+30″.0	—0° 34′ 3″.9	—1″.3
1912 Jan. 22	1.476717	112 24 54.6	+29.7	—0 33 38.4	—1.3
März 2	1.476729	112 39 20.3	+29.4	—0 33 12.9	—1.3
April 11	1.476742	112 53 45.9	+29.0	—0 32 47.4	—1.3
Mai 21	1.476754	113 8 11.4	+28.7	—0 32 21.8	—1.3
Juni 30	1.476767	113 22 36.8	+28.4	—0 31 56.2	—1.3
Aug. 9	1.476780	113 37 2.1	+28.0	—0 31 30.5	—1.3
Sept. 18	1.476793	113 51 27.3	+27.7	—0 31 4.9	—1.3
Okt. 28	1.476807	114 5 52.3	+27.3	—0 30 39.2	—1.3
Dez. 7	1.476821	114 20 17.2	+27.0	—0 30 13.5	—1.3
47	1.476835	114 34 42.1	+26.6	—0 29 47.7	—1.3

$\Omega = 130° \; 47'; \quad i = 1° \; 46' \; 42''; \quad m = \frac{1}{19314}$

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
1	α Androm.	2.1	0 3 50.149	+3.0954	+ 107	+28 36 16.56	+19.882	— 161
2	β Cassiopejae	2.2	0 4 28.448	+3.1829	+ 675	+58 39 51.80	+19.862	— 180
3	ε Phoenicis	3.8	0 4 56.819	+3.0524	+ 99	−46 13 59.04	+19.849	— 192
4	[22 Androm.]	5.2	0 5 44.496	+3.1075	+ 8	+45 34 57.09	+20.037	— 3
5	[χ² Sculptoris]	5.5	0 7 6.410	+3.0506	+ 4	−28 17 24.15	+20.042	+ 6
6	[θ Sculptoris]	5.3	0 7 15.638	+3.0526	+ 104	−35 37 32.83	+20.160	+ 124
7	γ Pegasi	2.7	0 8 42.145	+3.0859	+ 1	+14 41 39.46	+20.018	— 14
8	[Br. 6]	6.5	0 11 13.311	+3.3508	+ 67	+76 27 42.48	+20.023	+ 2
9	ι Ceti	3.5	0 14 56.661	+3.0568	— 15	— 9 18 42.34	+19.971	— 32
10	ζ Tucanae	4.2	0 15 29.513	+3.1461	+2706	−65 23 31.29	+21.154	+1154
11	β Hydri	2.8	0 21 8.633	+3.2051	+6998	−77 44 59.37	+20.279	+ 318
12	α Phoenicis	2.3	0 21 56.156	+2.9712	+ 168	−42 47 2.32	+19.545	— 409
13	12 Ceti	6.1	0 25 32.872	+3.0618	+ 8	— 4 26 36.61	+19.913	— 8
14	[Ceti 49 G.]	5.3	0 25 58.735	+3.0018	— 25	−24 16 28.25	+19.926	+ 9
15	[λ¹ Phoenicis]	4.7	0 27 10.388	+2.9011	+ 123	−49 17 24.76	+19.917	+ 12
16	[κ Cassiop.]	4.2	0 27 59.294	+3.3857	+ 11	+62 26 46.42	+19.900	+ 3
17	ζ Cassiopejae	3.8	0 32 3.670	+3.3259	+ 23	+53 24 45.75	+19.843	— 7
18	π Androm.	4.2	0 32 10.617	+3.1968	+ 17	+33 14 6.07	+19.849	0
19	[ε Androm.]	4.3	0 33 54.113	+3.1637	— 173	+28 50 2.60	+19.576	— 251
20	δ Androm.	3.2	0 34 37.109	+3.2010	+ 106	+30 22 46.55	+19.734	— 84
21	α Cassiopejae	(2.2)	0 35 30.307	+3.3849	+ 60	+56 3 17.50	+19.777	— 29
22	β Ceti	2.2	0 39 10.368	+3.0127	+ 160	−18 28 10.28	+19.792	+ 39
23	[η Phoenicis]	4.3	0 39 24.218	+2.7079	+ 5	−57 56 44.71	+19.742	— 8
25	ο Cassiopejae	4.7	0 39 48.912	+3.3295	+ 22	+47 48 10.29	+19.736	— 8
24	21 Cassiopejae	5.8	0 39 48.945	+3.9001	— 57	+74 30 25.82	+19.721	— 23
26	[λ² Sculptoris]	5.9	0 39 56.840	+2.9033	+ 178	−38 54 23.41	+19.857	+ 115
27	ζ Androm.	4.1	0 42 40.257	+3.1741	— 75	+23 47 18.90	+19.621	— 79
28	[δ Piscium]	4.4	0 44 6.906	+3.1096	+ 52	+ 7 6 22.60	+19.630	— 46
29	[Br. 82]	5.7	0 45 22.578	+3.6119	+ 59	+63 46 7.07	+19.650	— 5
31	[λ Hydri]	5.3	0 45 32.589	+2.0996	+ 400	−75 24 8.67	+19.625	— 26
30	[19 Ceti]	5.4	0 45 43.140	+3.0046	— 159	−11 7 5.21	+19.426	— 223
32	γ Cassiopejae	2.0	0 51 23.226	+3.5959	+ 37	+60 14 25.44	+19.540	— 4
34	[λ² Tucanae]	5.3	0 51 43.095	+2.2476	— 33	−70 0 10.41	+19.493	— 45
33	μ Androm.	3.9	0 51 51.834	+3.3199	+ 129	+38 1 20.06	+19.571	+ 36
35	α Sculptoris	4.1	0 54 21.956	+2.8920	— 5	−29 49 58.77	+19.479	— 5

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
36	ε Piscium	4.2	0 58 22.462	+3.1109	− 55	+ 7 24 59.70	+19.430	+ 30
37	[26 Ceti]	6.2	0 59 17.233	+3.0860	+ 81	+ 0 53 43.09	+19.340	− 39
38	β Phoenicis	3.2	1 2 9.438	+2.6805	− 56	−47 11 23.86	+19.298	− 15
39	[ι Tucanae]	5.5	1 3 49.663	+2.3845	+ 101	−62 14 42.52	+19.269	− 4
40	[η Ceti]	3.3	1 4 9.741	+3.0169	+ 138	−10 38 54.80	+19.134	−132
41	[44 H. Ceph.]	5.7	1 4 37.679	+5.0558	+ 331	+79 12 21.24	+19.263	+ 9
42	β Androm.	2.1	1 4 48.018	+3.3502	+ 151	+35 9 15.36	+19.137	−112
43	[τ Piscium]	4.3	1 6 48.592	+3.2965	+ 56	+29 37 21.36	+19.159	− 41
44	[Sculpt. 102 G.]	6.0	1 8 42.147	+2.7645	+ 39	−38 19 21.61	+19.125	− 27
45	υ Piscium	4.6	1 14 37.548	+3.2900	+ 15	+26 48 6.34	+18.982	− 11
47	ϑ Ceti	3.4	1 19 37.462	+2.9979	− 55	− 8 38 13.94	+18.634	−214
46	[ψ Cassiop.]	5.0	1 19 41.999	+4.1948	+ 134	+67 40 15.91	+18.879	+ 33
48	δ Cassiopejae	2.7	1 20 2.891	+3.8974	+ 397	+59 46 41.77	+18.793	− 43
49	[γ Phoenicis]	3.2	1 24 32.639	+2.6072	− 38	−43 46 8.14	+18.480	−218
50	η Piscium	3.6	1 26 46.305	+3.2055	+ 15	+14 53 32.69	+18.619	− 7
51	40 Cassiopejae	5.5	1 31 27.569	+4.7267	− 19	+72 35 31.09	+18.465	− 6
52	υ Persei	3.6	1 32 35.005	+3.6661	+ 64	+48 10 57.73	+18.319	−113
53	[Hydri 14 G.]	6.3	1 33 3.421	+0.3625	− 69	−78 57 5.37	+18.288	−128
54	α Eridani	1	1 34 26.332	+2.2386	+ 122	−57 41 1.07	+18.330	− 38
55	43 Cassiopejae	5.9	1 35 48.363	+4.3974	+ 88	+67 35 54.22	+18.318	− 2
56	[ν Piscium]	4.5	1 36 51.007	+3.1193	− 16	+ 5 2 33.25	+18.284	+ 2
57	φ Persei	4.1	1 38 8.214	+3.7423	+ 26	+50 14 44.86	+18.222	− 15
58	[Sculpt. 129 G.]	5.8	1 38 10.205	+2.6443	− 58	−37 16 33.60	+18.212	− 23
59	τ Ceti	3.4	1 39 58.788	+2.7868	−1196	−16 24 2.48	+19.020	+851
60	ο Piscium	4.3	1 40 44.678	+3.1644	+ 47	+ 8 42 54.61	+18.190	+ 50
61	Lac. ε Sculpt.	5.3	1 41 31.431	+2.8094	+ 99	−25 29 32.41	+18.036	− 75
62	ζ Ceti	3.5	1 47 6.963	+2.9602	+ 22	−10 46 10.20	+17.862	− 34
63	ε Cassiopejae	3.3	1 48 3.031	+4.2810	+ 50	+63 14 13.91	+17.844	− 15
64	α Triang.	3.5	1 48 3.660	+3.4123	+ 11	+29 9 1.81	+17.626	−233
65	ξ Piscium	4.6	1 48 59.894	+3.1033	+ 13	+ 2 45 12.26	+17.840	+ 19
66	β Arietis	2.7	1 49 46.520	+3.3079	+ 65	+20 22 41.69	+17.681	−109
67	ψ Phoenicis	4.5	1 50 7.122	+2.4069	− 95	−46 44 0.75	+17.675	−101
68	χ Eridani	3.6	1 52 31.976	+2.3359	+ 713	−52 2 48.65	+17.948	+271
69	[η² Hydri]	4.7	1 52 42.190	+1.5164	+ 119	−68 4 47.97	+17.750	+ 80
70	50 Cassiopejae	4.0	1 55 53.721	+5.0553	− 91	+71 59 45.82	+17.562	+ 25

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
71	υ Ceti	3.9	1 55 51.520	+2.8267	+ 91	−21 30 13.99	+17.525	− 14
72	α Hydri	2.9	1 55 59.788	+1.8904	+362	−61 59 52.32	+17.554	+ 21
73	γ Androm.	2.1	1 58 29.491	+3.6697	+ 43	+41 54 28.26	+17.372	− 54
74	α Arietis	2.0	2 2 12.534	+3.3753	+137	+23 2 48.42	+17.120	−143
75	β Triang.	3.0	2 4 18.130	+3.5601	+122	+34 34 17.41	+17.129	− 40
76	55 Cassiopejae	6.3	2 7 33.620	+4.6656	− 10	+66 6 45.26	+17.023	+ 3
77	[6 Persei]	5.7	2 7 44.671	+3.9716	+367	+50 39 26.97	+16.843	−169
78	Lac. μ Forn.	5.2	2 9 1.991	+2.6430	+ 13	−31 8 10.76	+16.954	+ 2
79	[γ Triang.]	4.2	2 12 4.677	+3.5572	+ 37	+33 26 26.62	+16.764	− 44
80	67 Ceti	5.8	2 12 35.584	+2.9905	+ 55	− 6 49 38.28	+16.674	−110
81	[ϑ Arietis]	5.7	2 13 13.652	+3.3314	− 10	+19 29 40.22	+16.752	− 2
82	[φ Eridani]	3.5	2 13 21.898	+2.1433	+ 81	−51 55 9.54	+16.711	− 36
83	[κ Fornacis]	5.4	2 18 30.950	+2.7452	+142	−24 12 57.09	+16.432	− 63
84	[λ Horologii]	5.5	2 22 26.241	+1.6762	− 95	−60 42 20.33	+16.160	−137
85	ξ² Ceti	4.2	2 23 28.688	+3.1861	+ 26	+ 8 3 57.90	+16.240	− 4
86	[κ Eridani]	4.1	2 23 45.511	+2.1982	− 2	−48 5 54.99	+16.207	− 23
88	[λ¹ Fornacis]	6.0	2 29 26.786	+2.4997	− 43	−35 2 12.48	+15.901	− 32
87	36 H. Cassiop.	5.4	2 29 38.398	+5.6311	− 60	+72 26 3.18	+15.944	+ 21
90	μ Hydri	5.5	2 33 30.667	−1.3535	+474	−79 29 36.32	+15.682	− 32
89	ν Arietis	5.6	2 33 48.956	+3.4004	− 9	+21 34 53.05	+15.682	− 16
91	δ Ceti	3.9	2 34 58.220	+3.0725	+ 7	− 0 3 2.32	+15.633	− 2
92	[Br. 366]	6.3	2 37 14.224	+5.1141	+ 25	+67 27 5.47	+15.482	− 29
93	ϑ Persei	4.1	2 38 10.907	+4.0810	+346	+48 51 24.68	+15.370	− 88
95	[ε Hydri]	4.0	2 38 13.894	+0.9128	+169	−68 38 38.03	+15.460	+ 5
94	[35 Arietis]	4.7	2 38 17.025	+3.5130	+ 4	+27 19 59.71	+15.445	− 7
96	[γ Ceti]	3.4	2 38 44.341	+3.1055	− 98	+ 2 51 55.52	+15.278	−148
97	π Ceti	4.0	2 39 56.030	+2.8540	− 8	−14 13 51.33	+15.351	− 9
98	μ Ceti	4.2	2 40 10.961	+3.2390	+189	+ 9 44 35.12	+15.315	− 31
99	[η Persei]	3.8	2 44 16.082	+4.3542	+ 28	+55 31 51.48	+15.103	− 11
100	41 Arietis	3.6	2 44 48.006	+3.5242	+ 51	+26 53 54.11	+14.970	−113
101	β Fornacis	4.4	2 45 24.430	+2.5103	+ 62	−32 46 30.31	+15.207	+159
102	τ² Eridani	4.8	2 47 2.795	+2.7204	− 39	−21 21 59.14	+14.923	− 29
103	τ Persei	4.0	2 48 0.600	+4.2342	+ 3	+52 24 10.86	+14.895	− 2
104	η Eridani	3.7	2 52 7.648	+2.9293	+ 52	− 9 14 52.51	+14.435	−218
105	47 H. Cephei	5.8	2 54 20.306	+7.8330	−113	+79 4 20.35	+14.542	+ 21

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0^s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
106	ϑ Eridani	2.9	2 54 55.389	+2.2724	— 68	—40 39 24.64	+14.513	+ 28
107	α Ceti	2.5	2 57 40.646	+3.1329	— 9	+ 3 44 42.08	+14.241	— 76
108	γ Persei	3.0	2 58 24.857	+4.3254	+ 2	+53 9 45.11	+14.268	— 4
109	ρ Persei	(3.8)	2 59 31.928	+3.8341	+ 114	+38 29 59.86	+14.100	—103
110	μ Horologii	5.1	3 1 32.220	+1.4079	— 117	—60 4 43.93	+14.011	— 68
113	[ϑ Hydri]	5.7	3 2 3.914	+0.0998	+ 51	—72 14 45.79	+14.069	+ 22
111	β Persei	(2.2)	3 2 26.258	+3.8923	+ 7	+40 37 2.32	+14.022	— 1
112	[ι Persei]	4.1	3 2 42.525	+4.3127	+1295	+49 16 40.18	+13.925	— 81
114	δ Arietis	4.3	3 6 35.638	+3.4252	+ 106	+19 23 40.22	+13.757	— 4
116	[94 Ceti]	5.2	3 8 16.917	+3.0602	+ 136	— 1 31 29.02	+13.592	— 61
117	12 Eridani	3.6	3 8 19.914	+2.5467	+ 241	—29 20 0.80	+14.294	+644
115	48 H. Cephei	5.9	3 9 6.727	+7.4876	+ 183	+77 24 46.21	+13.557	— 44
118	[Horol. 38 G.]	6.1	3 10 19.220	+1.5145	— 5	—57 39 3.16	+13.516	— 6
119	[e Eridani]	4.2	3 16 24.835	+2.3958	+2788	—43 24 21.91	+13.859	+736
120	α Persei	1.9	3 18 1.982	+4.2675	+ 29	+49 32 55.46	+12.991	— 26
121	o Tauri	3.6	3 20 4.536	+3.2252	— 44	+ 8 43 11.10	+12.804	— 76
122	2 H. Camelop.	4.4	3 21 55.944	+4.8321	— 1	+59 38 4.58	+12.762	+ 6
123	[ξ Tauri]	3.6	3 22 23.866	+3.2479	+ 39	+ 9 25 35.02	+12.679	— 45
124	[σ Persei]	4.8	3 24 21.836	+4.2160	+ 9	+47 41 32.01	+12.614	+ 23
125	f Tauri	4.1	3 26 0.735	+3.3083	+ 13	+12 38 8.41	+12.473	— 5
126	[κ Reticuli]	4.8	3 27 50.139	+1.0361	+ 514	—63 14 51.29	+12.715	+362
127	ε Eridani	3.5	3 28 47.026	+2.8253	— 658	— 9 45 20.37	+12.299	+ 12
128	[Horol. 45 G.]	5.8	3 29 57.116	+1.7833	+ 48	—50 40 36.76	+12.287	+ 81
130	[y Eridani]	4.5	3 33 56.157	+2.1515	— 16	—40 33 46.36	+11.904	— 24
129	[Gr. 716]	5.4	3 34 30.420	+5.1761	— 21	+62 55 56.90	+11.911	+ 22
131	δ Persei	3.0	3 36 39.197	+4.2585	+ 33	+47 30 25.11	+11.701	— 35
133	[δ Fornacis]	4.9	3 38 44.861	+2.3849	— 5	—32 13 8.71	+11.595	+ 7
132	[o Persei]	3.9	3 38 47.793	+3.7552	+ 8	+32 0 36.51	+11.567	— 17
135	[δ Eridani]	3.4	3 39 1.899	+2.8724	— 65	—10 3 38.54	+12.314	+747
134	ν Persei	3.9	3 39 12.627	+4.0657	— 6	+42 18 4.84	+11.550	— 5
136	[17 Tauri]	4.0	3 39 38.813	+3.5574	+ 17	+23 50 14.51	+11.480	— 44
137	[24 Eridani]	5.4	3 40 2.241	+3.0451	+ 1	— 1 26 24.42	+11.487	— 8
138	5 H. Camelop.	4.5	3 41 2.954	+6.2775	+ 42	+71 3 44.38	+11.383	— 40
139	η Tauri	3.0	3 42 15.035	+3.5612	+ 18	+23 50 1.34	+11.289	— 48
140	τ^6 Eridani	4.1	3 43 3.663	+2.5797	— 123	—23 30 32.77	+10.758	—519

Nr.	Name	Gr.	AR. 1912.0 h m s	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0 ° ′ ″	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
141	β Reticuli	3.8	3 43 5.523	+0.7417	+478	−65 5 1.57	+11.337	+ 62
142	[27 Tauri]	3.8	3 43 55.594	+3.5622	+ 14	+23 47 6.11	+11.170	− 45
143	g Eridani	4.1	3 46 9.649	+2.2446	− 40	−36 27 58.74	+11.001	− 52
146	γ Hydri	3.1	3 48 35.411	−0.9657	+123	−74 30 32.30	+10.984	+109
144	ζ Persei	2.9	3 48 35.816	+3.7649	+ 11	+31 37 22.97	+10.863	− 11
145	9 H. Camelop.	5.5	3 49 37.421	+5.0912	− 3	+60 51 7.30	+10.782	− 16
147	ε Persei	3.0	3 51 56.649	+4.0175	+ 23	+39 45 23.09	+10.598	− 29
148	ξ Persei	4.0	3 53 15.087	+3.8859	+ 10	+35 32 19.47	+10.521	− 8
149	γ Eridani	3.0	3 53 55.370	+2.7979	+ 43	−13 45 30.00	+10.368	−112
150	λ Tauri	(3.5)	3 55 48.160	+3.3205	− 5	+12 14 32.44	+10.326	− 13
151	ν Tauri	3.9	3 58 28.413	+3.1890	+ 4	+ 5 44 44.68	+10.128	− 10
153	[Erid. 174 G.]	5.7	4 1 59.773	+2.4717	+148	−27 53 31.54	+ 9.979	+108
152	c Persei	4.0	4 2 16.069	+4.3451	+ 33	+47 28 42.28	+ 9.818	− 32
154	o¹ Eridani	4.1	4 7 34.141	+2.9272	+ 8	− 7 3 59.25	+ 9.526	+ 82
155	α Horologii	3.7	4 11 5.037	+1.9853	+ 21	−42 30 39.56	+ 8.953	−219
156	α Reticuli	3.2	4 13 17.271	+0.7646	+ 50	−62 41 38.04	+ 9.047	+ 47
157	[γ Doradus]	4.2	4 13 43.112	+1.5675	+ 88	−51 42 29.99	+ 9.138	+172
160	υ⁴ Eridani	3.3	4 14 33.774	+2.2682	+ 37	−34 0 45.90	+ 8.888	− 12
158	[54 Persei]	5.3	4 14 41.585	+3.8894	− 20	+34 21 18.28	+ 8.884	− 6
159	[γ Tauri]	3.7	4 14 47.005	+3.4111	+ 82	+15 24 56.86	+ 8.854	− 29
161	[Erid. 212 G.]	5.4	4 16 48.701	+2.6179	+ 36	−20 50 55.82	+ 8.739	+ 15
162	δ Tauri	3.8	4 17 51.470	+3.4568	+ 78	+17 20 12.59	+ 8.610	− 31
163	[η Reticuli]	5.3	4 20 56.071	+0.6412	+126	−63 35 42.59	+ 8.558	+160
164	ε Tauri	3.5	4 23 28.574	+3.5002	+ 80	+18 59 9.63	+ 8.160	− 35
166	[δ Mensae]	5.8	4 23 53.938	−4.1504	+ 97	−80 25 14.96	+ 8.234	+ 72
165	[1 Camel. seq.]	6.3	4 25 3.279	+4.7399	+ 7	+53 43 13.93	+ 8.069	0
167	[δ Caeli]	5.2	4 28 8.314	+1.8354	− 6	−45 8 32.43	+ 7.805	− 17
168	α Tauri	1	4 30 52.160	+3.4398	+ 49	+16 19 59.18	+ 7.412	−189
169	ν Eridani	3.8	4 31 55.263	+2.9964	+ 2	− 3 31 54.34	+ 7.511	− 4
171	α Doradus	3.2	4 32 5.694	+1.2948	+ 71	−55 13 35.18	+ 7.505	+ 3
170	[υ² Eridani]	3.5	4 32 7.704	+2.3309	− 46	−30 44 30.94	+ 7.493	− 6
172	53 Eridani	3.9	4 34 8.960	+2.7461	− 54	−14 28 31.87	+ 7.170	−165
174	τ Tauri	4.2	4 36 57.691	+3.5981	+ 5	+22 47 19.94	+ 7.086	− 19
173	Gr. 848	6.2	4 36 58.256	+8.0155	+107	+75 46 57.82	+ 6.972	−133
175	4 Camelop.	5.5	4 40 40.038	+4.9853	+ 61	+56 36 7.00	+ 6.655	−146

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
176	[μ Eridani]	3.8	4 41 6.092	+2.9988	+ 13	− 3 24 55.18	+6.754	− 12
177	[μ Mensae]	5.5	4 43 56.313	−0.6144	+ 17	−71 5 32.90	+6.560	+ 28
178	9 Camelop.	4.3	4 45 17.568	+5.9428	+ 5	+66 11 40.32	+6.429	+ 10
179	[π⁴ Orionis]	3.7	4 46 31.079	+3.1937	0	+ 5 27 18.94	+6.310	− 7
180	π⁵ Orionis	3.7	4 49 39.982	+3.1235	− 2	+ 2 17 49.98	+6.053	− 3
181	ι Aurigae	2.7	4 51 15.645	+3.9036	+ 10	+33 1 39.41	+5.902	− 20
182	10 Camelop.	4.1	4 55 35.073	+5.3249	− 1	+60 18 53.27	+5.549	− 12
183	ε Aurigae	(3.2)	4 55 39.077	+4.3000	+ 6	+43 41 38.38	+5.541	− 14
184	ι Tauri	4.8	4 57 50.063	+3.5842	+ 53	+21 27 54.24	+5.328	− 43
185	η Aurigae	3.3	5 0 20.477	+4.2030	+ 33	+41 6 58.93	+5.088	− 71
186	ε Leporis	3.2	5 1 44.131	+2.5391	+ 20	−22 29 19.20	+4.974	− 68
187	[η² Pictoris]	5.1	5 2 41.067	+1.5495	+ 35	−49 41 47.67	+4.967	+ 6
188	β Eridani	2.7	5 3 31.377	+2.9487	− 59	− 5 11 58.40	+4.811	− 79
189	[ζ Doradus]	4.7	5 3 59.953	+1.0228	− 71	−57 35 33.69	+4.953	+103
190	[λ Eridani]	4.2	5 4 56.074	+2.8704	+ 3	− 8 51 58.65	+4.766	− 4
192	μ Aurigae	5.1	5 7 24.263	+4.1020	− 13	+38 22 52.08	+4.482	− 79
191	19 H. Camelop.	5.1	5 8 1.859	+9.8237	−316	+79 7 56.22	+4.667	+160
193	α Aurigae	1	5 10 11.152	+4.4281	+ 85	+45 54 34.15	+3.895	−428
194	β Orionis	1	5 10 18.479	+2.8823	+ 2	− 8 18 9.57	+4.312	0
195	[τ Orionis]	3.7	5 13 19.966	+2.9121	− 12	− 6 56 19.87	+4.047	− 7
196	ϑ Doradus	4.8	5 13 49.314	−0.0537	+ 14	−67 17 3.52	+4.050	+ 39
197	[ο Columbae]	4.9	5 14 18.591	+2.1623	+ 63	−34 58 50.42	+3.642	−328
198	[Columb. 12 G.]	6.0	5 15 53.228	+2.3917	+ 8	−27 27 31.72	+3.823	− 11
199	[ζ Pictoris]	5.6	5 17 12.517	+1.4690	+ 8	−50 42 0.73	+3.948	+227
200	[η Orion. m.]	3.3	5 20 3.127	+3.0161	+ 5	− 2 28 38.71	+3.478	+ 1
201	γ Orionis	1.7	5 20 24.628	+3.2170	− 3	+ 6 16 14.23	+3.425	− 20
202	β Tauri	1.8	5 20 43.677	+3.7911	+ 25	+28 32 2.34	+3.241	−177
203	17 Camelop.	5.9	5 21 51.275	+5.6582	− 3	+62 59 41.84	+3.320	− 1
204	[β Leporis]	2.9	5 24 28.488	+2.5707	+ 4	−20 49 44.69	+3.002	− 93
206	δ Orionis	2.2	5 27 30.602	+3.0642	0	− 0 21 48.97	+2.831	− 2
205	Gr. 966	6.6	5 27 56.992	+8.0062	− 9	+74 59 14.45	+2.814	+ 20
207	α Leporis	2.6	5 28 50.909	+2.6455	+ 2	−17 53 4.94	+2.719	+ 2
208	[φ¹ Orionis]	4.6	5 29 59.326	+3.2925	− 1	+ 9 25 50.38	+2.607	− 10
209	ι Orionis	2.8	5 31 7.683	+2.9344	+ 4	− 5 58 1.38	+2.514	− 4
210	ε Orionis	1.6	5 31 44.851	+3.0435	+ 1	− 1 15 26.87	+2.462	− 3

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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211	ζ Tauri	3.0	5 32 23.086	+3.5848	+ 6	+21 5 22.76	+2.384	— 26
212	β Doradus	3.7	5 32 51.589	+0.5169	— 13	—62 32 50.01	+2.366	— 2
213	[σ Orionis]	3.8	5 34 19.667	+3.0111	0	— 2 39 0.73	+2.240	— 1
214	[γ Mensae]	5.3	5 35 21.706	—2.3936	+276	—76 24 15.02	+2.450	+299
215	α Columbae	2.4	5 36 27.690	+2.1717	— 1	—34 7 14.11	+2.018	— 37
216	ο Aurigae	5.7	5 39 4.919	+4.6462	— 6	+49 47 19.69	+1.819	— 9
217	[γ Leporis]	3.8	5 40 47.695	+2.5015	—201	—22 28 35.63	+1.302	—376
218	[130 Tauri]	5.8	5 42 18.320	+3.4981	+ 4	+17 41 49.00	+1.540	— 6
219	ζ Leporis	3.5	5 42 58.058	+2.7179	— 12	—14 51 14.85	+1.487	— 2
220	κ Orionis	2.1	5 43 34.953	+2.8451	+ 4	— 9 42 0.89	+1.432	— 3
221	[ν Aurigae]	3.9	5 45 23.398	+4.1569	— 4	+39 7 25.19	+1.288	+ 11
222	[δ Leporis]	3.8	5 47 32.197	+2.5799	+166	—20 53 9.63	+0.437	—652
223	[β Columbae]	2.9	5 47 51.382	+2.1134	+ 33	—35 48 3.12	+1.465	+404
224	α Orionis	1	5 50 24.432	+3.2478	+ 20	+ 7 23 29.18	+0.852	+ 13
225	δ Aurigae	3.8	5 52 16.865	+4.9399	+100	+54 16 44.65	+0.553	—122
226	[η Leporis]	3.6	5 52 23.796	+2.7323	— 27	—14 10 59.30	+0.804	+140
227	β Aurigae	1.9	5 53 4.425	+4.4013	— 42	+44 56 22.07	+0.598	— 8
228	ϑ Aurigae	2.7	5 53 43.226	+4.0917	+ 49	+37 12 26.41	+0.462	— 87
229	η Columbae	3.9	5 56 27.179	+1.8366	+ 22	—42 49 11.07	+0.277	— 34
230	[66 Orionis]	5.9	6 0 19.361	+3.1693	— 6	+ 4 9 51.40	—0.043	— 15
231	[Puppis 1 G.]	5.8	6 1 56.437	+1.7262	— 83	—45 2 9.05	+0.062	+232
232	ν Orionis	4.4	6 2 32.857	+3.4262	+ 11	+14 46 46.79	—0.254	— 31
233	[36 Camelop.]	5.6	6 3 59.860	+6.0366	— 5	+65 44 14.05	—0.379	— 29
235	[δ Pictoris]	5.0	6 8 35.019	+1.1667	— 22	—54 56 55.55	—0.758	— 7
234	22 H. Camelop.	4.6	6 9 9.096	+6.6179	+ 17	+69 21 8.49	—0.902	—102
236	η Geminor.	3.3	6 9 33.954	+3.6224	— 42	+22 31 59.40	—0.849	— 13
237	[2 Lyncis]	4.4	6 11 51.596	+5.2969	— 7	+59 2 38.42	—1.007	+ 29
239	[α Mensae]	5.1	6 12 51.543	—1.7888	+238	—74 43 23.83	—1.350	—226
238	[κ Columbae]	4.4	6 13 25.262	+2.1340	— 6	—35 6 38.78	—1.099	+ 74
240	ζ Canis maj.	2.9	6 16 56.062	+2.3025	+ 2	—30 1 25.31	—1.476	+ 4
241	μ Geminor.	2.9	6 17 38.231	+3.6309	+ 48	+22 33 34.62	—1.652	—111
242	ψ¹ Aurigae	5.1	6 18 7.328	+4.6242	+ 9	+49 20 1.97	—1.587	— 3
243	β Canis maj.	2.0	6 18 49.445	+2.6417	— 4	—17 54 41.78	—1.643	+ 2
244	8 Monocer.	4.5	6 19 6.311	+3.1799	— 7	+ 4 38 17.70	—1.665	+ 4
245	α Argus	1	6 21 59.837	+1.3313	+ 16	—52 38 50.15	—1.910	+ 11

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
246	10 Monocer.	5.0	6h 23m 36s.846	+ 2s.9629	— 2	— 4° 42′ 25″.59	—2″.057	+ 5
247	8 Lyncis	6.3	6 29 39.055	+ 5.4911	—283	+61 33 34.92	—2.864	— 277
248	23 H. Camelop.	5.6	6 31 14.017	+10.3036	—272	+79 39 42.92	—3.346	— 623
249	ξ² Canis maj.	4.6	6 31 22.072	+ 2.5140	+ 5	—22 53 40.22	—2.722	+ 13
250	51 Aurigae	6.1	6 32 33.735	+ 4.1601	— 18	+39 28 9.53	—2.953	— 114
251	γ Geminor.	2.0	6 32 37.725	+ 3.4672	+ 34	+16 28 30.59	—2.890	— 45
252	ν Argus	3.1	6 35 4.096	+ 1.8354	— 4	—43 7 6.39	—3.075	— 20
253	S Monocer.	(4.4)	6 36 7.937	+ 3.3054	+ 6	+ 9 58 40.34	—3.153	— 5
254	ε Geminor.	3.1	6 38 31.144	+ 3.6934	+ 3	+25 13 8.74	—3.368	— 15
256	ξ Geminor.	3.4	6 40 21.056	+ 3.3687	— 75	+12 59 28.34	—3.710	— 199
255	[ψ⁵ Aurigae]	5.5	6 40 23.903	+ 4.3290	+ 6	+43 39 57.25	—3.361	+ 154
257	α Canis maj.[1]	1	6 41 16.317	+ 2.6438	—369	—16 35 41.32	—4.803	—1213
258	18 Monocer.	4.7	6 43 16.380	+ 3.1299	— 2	+ 2 30 32.79	—3.782	— 20
259	[43 Camelop.]	5.1	6 44 13.340	+ 6.4897	+ 16	+68 59 31.09	—3.841	+ 3
261	ϑ Geminor.	3.4	6 46 59.432	+ 3.9581	+ 7	+34 4 5.49	—4.136	— 55
260	[24 H. Camel.]	4.6	6 47 14.863	+ 8.8018	+217	+77 5 28.94	—4.116	— 13
262	α Pictoris	3.2	6 47 17.348	+ 0.6182	—101	—61 50 47.94	—3.851	+ 256
264	[ζ Mensae]	5.7	6 47 23.271	— 4.9373	— 38	—80 43 17.87	—4.031	+ 85
263	[τ Argus]	2.9	6 47 45.135	+ 1.4888	+ 29	—50 30 34.36	—4.242	— 96
265	15 Lyncis	4.6	6 49 39.622	+ 5.2057	0	+58 32 21.32	—4.440	— 130
266	ϑ Canis maj.	4.1	6 50 6.087	+ 2.7876	— 94	—11 55 40.03	—4.361	— 14
267	[ι Volantis]	5.4	6 52 27.606	— 0.6768	— 5	—70 51 14.00	—4.537	+ 12
268	ε Canis maj.	1.5	6 55 10.003	+ 2.3575	0	—28 51 6.40	—4.778	+ 1
269	ζ Geminor.	(3.8)	6 58 53.445	+ 3.5609	0	+20 42 0.73	—5.097	— 3
270	[ο² Canis maj.]	3.1	6 59 20.988	+ 2.5052	— 2	—23 42 14.99	—5.133	0
271	γ Canis maj.	4.0	6 59 46.653	+ 2.7152	+ 8	—15 30 9.63	—5.182	— 12
272	[Carinae 27 G.]	5.5	7 2 39.844	+ 1.1175	— 24	—56 36 56.93	—5.420	— 7
273	δ Canis maj.	1.9	7 4 48.761	+ 2.4389	— 8	—26 15 10.60	—5.590	+ 3
274	63 Aurigae	5.0	7 5 36.289	+ 4.1325	+ 45	+39 27 54.06	—5.660	+ 1
275	[J Puppis]	4.5	7 10 3.036	+ 1.7095	—148	—46 36 43.02	—5.942	+ 90
276	[64 Aurigae]	6.0	7 11 55.251	+ 4.1788	— 3	+41 2 25.61	—6.185	+ 3
277	λ Geminor.	3.6	7 13 2.205	+ 3.4502	— 31	+16 41 59.47	—6.324	— 44
278	π Argus	2.5	7 14 2.048	+ 2.1184	— 14	—36 56 20.38	—6.361	+ 3
279	δ Geminor.	3.3	7 14 52.138	+ 3.5866	— 11	+22 8 42.75	—6.443	— 10
280	19 Lync. seq.	5.5	7 15 41.510	+ 4.9083	— 1	+25 26 53.67	—6.535	— 34

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
281	δ Volantis	4.0	7h 16m 52s.729	−0s.0186	+ 4	−67° 47′ 46″.25	− 6″.611	− 12
282	ι Geminor.	3.8	7 20 15.790	+3.7309	− 83	+27 58 25.71	− 6.963	− 85
283	[η Can. maj.]	2.4	7 20 36.845	+2.3729	− 5	−29 7 50.94	− 6.893	+ 13
284	Gr. 1308	5.8	7 21 44.003	+6.2751	− 7	+68 38 48.20	− 7.042	− 44
285	β Canis min.	2.9	7 22 22.764	+3.2557	− 31	+ 8 28 2.51	− 7.092	− 41
286	ρ Geminor.	4.4	7 23 27.201	+3.8638	+122	+31 57 37.42	− 6.956	+ 183
287	α Gemin.[1]	1.8,2.8	7 28 59.109	+3.8351	−129	+32 4 57.47	− 7.671	− 81
288	[Pupp. 108 G.]	4.7	7 30 17.146	+2.5674	− 39	−22 6 20.29	− 7.676	+ 18
289	25 Monocer.	5.3	7 32 54.202	+2.9838	− 47	− 3 54 49.90	− 7.885	+ 20
290	[f Puppis]	4.7	7 34 6.701	+2.2192	− 27	−34 46 12.26	− 7.986	+ 16
291	α Can. min.[2]	0.5	7 34 41.769	+3.1425	−469	+ 5 27 4.55	− 9.077	−1029
292	24 Lyncis	5.0	7 35 34.076	+5.0948	− 47	+58 55 2.29	− 8.172	− 53
293	[26 Monocer.]	4.0	7 37 2.562	+2.8664	− 57	− 9 20 42.89	− 8.258	− 22
294	κ Geminor.	3.4	7 39 8.225	+3.6268	− 15	+24 36 35.30	− 8.457	− 54
295	β Geminor.	1.1	7 39 55.991	+3.6764	−468	+28 14 22.31	− 8.520	− 53
296	π Geminor.	5.5	7 41 50.128	+3.8752	− 1	+33 37 56.90	− 8.648	− 31
297	ζ Volantis	3.9	7 42 54.438	−0.7207	+ 8	−72 23 41.48	− 8.694	+ 8
298	[Pupp. 205 G.]	5.7	7 47 41.827	+2.7788	− 41	−13 39 50.27	− 9.420	− 343
299	[26 Lyncis]	5.7	7 48 18.539	+4.3805	− 40	+47 47 37.00	− 9.131	− 7
301	[α Puppis]	3.7	7 49 11.487	+2.0619	− 18	−40 20 54.05	− 9.192	+ 1
300	Gr. 1374	5.5	7 49 40.976	+7.2490	− 30	+74 9 16.02	− 9.264	− 32
302	[53 Camelop.]	6.3	7 54 12.030	+5.1499	− 30	+60 33 57.67	− 9.601	− 21
303	χ Argus	3.5	7 54 32.520	+1.5271	− 32	−52 44 45.01	− 9.583	+ 24
304	[27 Monocer.]	5.2	7 55 20.446	+2.9995	− 27	− 3 26 20.34	− 9.659	+ 9
305	χ Geminor.	5.1	7 58 6.963	+3.6905	− 15	+28 2 30.53	− 9.926	− 46
306	ζ Argus	2.2	8 0 29.427	+2.1076	− 34	−39 45 17.24	−10.050	+ 10
307	27 Lyncis	4.6	8 1 50.629	+4.5284	− 59	+51 45 40.44	−10.167	− 5
308	ι Navis	2.8	8 3 47.759	+2.5547	− 64	−24 3 0.38	−10.263	+ 46
309	γ Argus	2.1	8 6 49.201	+1.8488	− 12	−47 4 36.67	−10.539	− 4
310	Br. 1147	5.8	8 8 30.871	+7.6267	+ 58	+76 1 37.23	−10.644	+ 17
311	20 Navis	5.3	8 9 17.300	+2.7581	− 8	−15 31 21.19	−10.724	− 6
312	β Cancri	3.5	8 11 44.654	+3.2564	− 30	+ 9 27 26.59	−10.951	− 52
313	[q Puppis]	4.4	8 15 15.602	+2.2440	−104	−36 23 10.07	−11.067	+ 89
314	31 Lyncis	4.4	8 16 48.948	+4.1196	− 8	+43 28 16.16	−11.376	− 108
315	ε Argus	1.7	8 20 42.575	+1.2351	− 32	−59 13 33.42	−11.534	+ 15

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316	Br. 1197	3.6	8 21 15.850	+2.9995	− 41	− 3 37 7.49	−11.609	− 21
317	o Ursae maj.	3.3	8 22 57.789	+5.0131	−174	+61 0 47.85	−11.820	−111
318	ϑ Chamael.	4.2	8 23 17.818	−1.7428	−456	−77 12 3.20	−11.703	+ 29
319	[β Volantis]	3.7	8 24 46.976	+0.6627	− 53	−65 50 35.04	−12.015	−177
320	Gr. 1450	6.3	8 27 11.986	+3.9099	− 83	+38 19 8.17	−12.178	−170
321	η Cancri	5.6	8 27 37.335	+3.4747	− 26	+20 44 26.74	−12.087	− 50
322	[Gr. 1446]	6.4	8 29 56.918	+6.7522	− 35	+73 56 18.64	−12.304	−104
323	[Gr. 1460]	6.3	8 32 46.795	+4.4636	− 38	+53 1 14.64	−12.430	− 35
324	[e Velorum]	4.2	8 34 32.922	+2.1078	− 22	−42 40 51.10	−12.523	− 7
325	[6 Hydrae]	5.4	8 35 51.307	+2.8422	− 64	−12 9 49.54	−12.608	− 3
326	δ Cancri	3.9	8 39 41.180	+3.4142	− 9	+18 28 42.03	−13.100	−236
327	α Pyxidis	3.7	8 40 3.337	+2.4097	− 15	−32 52 7.24	−12.877	+ 12
328	ι Cancri	4.1	8 41 22.515	+3.6379	− 12	+29 4 56.78	−13.024	− 47
329	[ε Hydrae]	3.3	8 42 7.034	+3.1801	−126	+ 6 44 32.14	−13.077	− 50
330	δ Argus	2.0	8 42 16.428	+1.6575	+ 22	−54 23 9.05	−13.130	− 93
331	[η Chamael.]	5.9	8 44 20.222	−1.9580	−151	−78 38 39.01	−13.140	+ 33
332	[γ Pyxidis]	4.2	8 46 47.814	+2.5458	−100	−27 22 58.63	−13.242	+ 93
333	[σ² Cancri med.]	5.6	8 48 52.732	+3.6683	+ 31	+30 54 47.79	−13.496	− 26
334	ζ Hydrae	3.1	8 50 44.601	+3.1742	− 64	+ 6 16 51.68	−13.579	+ 12
336	c Carinae	4.0	8 53 3.259	+1.3632	− 26	−60 18 28.75	−13.687	+ 52
335	ι Ursae maj.	2.9	8 53 11.336	+4.1239	−437	+48 23 16.16	−13.995	−248
337	α Cancri	4.1	8 53 40.569	+3.2850	+ 26	+12 11 56.22	−13.813	− 35
338	[ρ Ursae maj.]	4.9	8 54 37.580	+5.4589	− 34	+67 58 24.41	−13.824	+ 15
339	10 Ursae maj.	3.9	8 54 55.970	+3.9078	−383	+42 7 54.51	−14.122	−265
340	[Gr. 1501]	5.9	8 57 34.016	+4.4170	− 8	+54 37 53.21	−14.021	+ 3
341	κ Ursae maj.	3.3	8 57 37.421	+4.1119	− 27	+47 30 18.76	−14.092	− 65
343	α Volantis	4.1	9 1 3.608	+0.9548	− 7	−66 2 40.91	−14.353	−114
342	[c Velorum]	3.9	9 1 7.060	+2.0661	− 70	−46 44 49.52	−14.271	− 28
344	σ² Ursae maj.	4.9	9 2 39.953	+5.3248	− 16	+67 29 33.68	−14.406	− 67
345	λ Argus	2.1	9 4 45.457	+2.2042	− 33	−43 4 36.66	−14.457	+ 9
346	[36 Lyncis]	5.3	9 8 3.223	+3.9379	− 18	+43 34 52.02	−14.706	− 42
347	ϑ Hydrae	3.9	9 9 47.225	+3.1238	+ 89	+ 2 41 9.73	−15.080	−313
348	β Argus	1.7	9 12 14.330	+0.6716	−303	−69 21 16.53	−14.814	+ 97
349	[38 Lyncis]	3.9	9 13 22.370	+3.7443	− 18	+37 10 32.04	−15.106	−129
350	83 Cancri	6.7	9 14 4.334	+3.3535	− 80	+18 4 44.21	−15.153	−135

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351	[ι Argus]	2.2	9 14 44.039	+1.6061	— 35	—58 54 20.56	—15.054	+ 2
352	40 Lyncis	3.2	9 15 41.883	+3.6642	— 178	+34 45 54.79	—15.100	+ 12
353	κ Argus	2.5	9 19 23.243	+1.8563	— 22	—54 38 4.23	—15.320	+ 2
354	α Hydrae	2.0	9 23 15.813	+2.9490	— 7	— 8 16 36.11	—15.506	+ 32
355	*h* Ursae maj.	3.5	9 24 36.273	+4.7668	+ 168	+63 26 50.42	—15.584	+ 28
356	[ε Antliae]	4.7	9 25 36.725	+2.4740	— 25	—35 33 57.98	—15.681	— 14
357	*d* Ursae maj.	4.5	9 26 43.302	+5.3644	— 121	+70 13 4.55	—15.653	+ 75
358	ϑ Ursae maj.	3.1	9 26 58.751	+4.0319	—1028	+52 4 44.32	—16.288	—547
359	ψ Argus	3.6	9 27 13.962	+2.3601	— 172	—40 4 51.67	—15.681	+ 74
361	[*N* Velorum]	3.0	9 28 32.882	+1.8228	— 36	—56 38 44.76	—15.825	+ 1
360	10 Leon. min.	4.6	9 28 50.219	+3.6862	+ 13	+36 47 19.76	—15.867	— 26
362	[*H* Carinae]	5.8	9 30 57.144	+0.4702	— 61	—72 41 25.86	—15.971	— 17
363	[Gr. 1564]	5.9	9 34 44.010	+5.1920	— 131	+69 38 19.40	—16.226	— 74
364	[κ Hydrae]	5.1	9 36 5.253	+2.8760	— 18	—13 55 57.19	—16.233	— 11
365	[ο Leonis]	3.8	9 36 27.345	+3.2054	— 94	+10 17 35.30	—16.278	— 37
366	ϑ Antliae	5.0	9 40 16.690	+2.6725	— 40	—27 21 58.30	—16.399	+ 35
367	ε Leonis	3.0	9 40 51.545	+3.4118	— 31	+24 10 47.65	—16.481	— 17
368	υ Ursae maj.	3.8	9 44 44.572	+4.2948	— 379	+59 27 11.66	—16.809	—154
369	υ Argus	3.0	9 44 54.166	+1.5014	— 21	—64 39 48.70	—16.664	— 1
370	6 Sextantis	6.2	9 46 48.002	+3.0242	+ 8	— 3 49 50.00	—16.785	— 30
371	[μ Leonis]	4.0	9 47 45.709	+3.4186	— 162	+26 25 18.79	—16.857	— 57
372	Gr. 1586	6.3	9 50 32.448	+5.4388	— 180	+73 17 54.93	—16.978	— 45
373	[Hydrae 183 G.]	5.5	9 50 43.176	+2.8298	— 24	—18 35 32.12	—17.006	— 66
374	[19 Leon. min.]	5.2	9 52 18.004	+3.6872	— 100	+41 28 30.51	—17.041	— 27
375	[φ Argus]	3.7	9 53 46.291	+2.1026	— 21	—54 8 54.98	—17.084	— 2
377	[η Antliae]	5.3	9 55 5.636	+2.5706	— 83	—35 28 9.95	—17.166	— 24
376	[12 Sextantis]	6.7	9 55 9.261	+3.1139	— 47	+ 3 48 21.23	—17.117	+ 27
378	π Leonis	4.9	9 55 33.876	+3.1732	— 21	+ 8 28 0.58	—17.188	— 25
379	η Leonis	3.4	10 2 32.222	+3.2751	— 2	+17 11 31.78	—17.476	— 6
380	α Leonis	1.3	10 3 41.231	+3.1987	— 167	+12 23 51.51	—17.520	— 1
381	λ Hydrae	3.7	10 6 17.886	+2.9249	— 134	—11 55 7.51	—17.716	— 87
382	*q* Velorum	3.9	10 11 2.345	+2.5124	— 154	—41 41 8.15	—17.778	+ 45
385	[ω Argus]	3.4	10 11 38.934	+1.4334	— 28	—69 36 2.60	—17.847	0
383	λ Ursae maj.	3.4	10 11 47.702	+3.6316	— 148	+43 21 15.01	—17.902	— 49
384	ζ Leonis	3.4	10 11 47.925	+3.3429	+ 15	+23 51 22.47	—17.860	— 7

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
386	μ Ursae maj.	3.0	10 17 5.507	+3.5869	− 70	+41 56 32.68	−18.035	+ 24
387	30 H. Urs. maj.	5.0	10 17 47.980	+4.3653	− 25	+66 0 42.77	−18.104	− 18
388	[25 Sextantis]	6.2	10 18 59.621	+3.0324	− 40	− 3 37 44.53	−18.133	− 2
389	μ Hydrae	3.9	10 21 50.045	+2.9008	− 85	−16 23 12.42	−18.317	− 82
391	J Carinae	4.1	10 22 39.014	+1.1966	− 67	−73 35 0.52	−18.281	− 17
390	31 Leon. min.	4.2	10 22 47.958	+3.4798	− 96	+37 9 30.60	−18.376	−106
392	Lac. α Antliae	4.2	10 23 7.410	+2.7419	− 62	−30 37 10.00	−18.272	+ 10
393	s Carinae	4.1	10 24 38.740	+2.1952	− 32	−58 17 23.43	−18.350	− 14
394	36 Ursae maj.	4.8	10 25 0.222	+3.8620	−217	+56 25 55.87	−18.382	− 33
395	9 H. Dracon.	4.9	10 27 38.725	+5.1912	− 96	+76 10 0.45	−18.445	− 4
396	[ρ Leonis]	3.8	10 28 10.734	+3.1617	− 6	+ 9 45 35.07	−18.463	− 5
397	[p Carinae]	3.5	10 28 53.609	+2.1284	− 18	−61 13 56.60	−18.478	+ 5
398	[37 Ursae maj.]	5.2	10 29 30.142	+3.8889	+ 83	+57 32 10.42	−18.468	+ 36
399	[44 Hydrae]	5.6	10 29 49.700	+2.8518	− 2	−23 17 29.16	−18.493	+ 21
400	[p Velorum]	4.0	10 33 35.948	+2.5123	−183	−47 46 6.12	−18.672	− 34
401	[γ Chamael.]	4.2	10 34 26.260	+0.7378	−116	−78 9 4.25	−18.635	+ 30
402	[x Velorum]	4.4	10 35 47.921	+2.3758	− 75	−55 8 41.42	−18.729	− 21
403	[35 H. Urs. maj.]	5.1	10 36 46.965	+4.3427	− 19	+69 32 12.50	−18.757	− 18
404	33 Sextantis	6.6	10 36 55.613	+3.0526	− 94	− 1 16 43.48	−18.869	−125
405	[41 Leon. min.]	5.2	10 38 38.045	+3.2679	− 81	+23 38 57.97	−18.783	+ 13
406	ϑ Argus	2.8	10 39 48.892	+2.1335	− 26	−63 55 59.37	−18.827	+ 4
407	42 Leon. min.	5.3	10 40 58.523	+3.3441	− 15	+31 8 45.96	−18.903	− 37
408	μ Argus	2.7	10 42 58.839	+2.5713	+ 49	−48 57 18.24	−18.989	− 65
409	l Leonis	5.4	10 44 37.985	+3.1563	− 3	+11 0 39.86	−19.002	− 30
411	[δ² Chamael.]	4.7	10 44 58.299	+0.6045	−119	−80 4 33.33	−18.972	+ 9
410	[ν Hydrae]	3.2	10 45 16.929	+2.9586	+ 66	−15 43 58.62	−18.795	+195
412	[46 Leon. min.]	3.9	10 48 23.663	+3.3645	+ 76	+34 41 22.36	−19.357	−282
414	[ι Antliae]	4.9	10 52 36.867	+2.7904	+ 62	−36 39 52.26	−19.322	−137
413	[Br. 1508]	6.4	10 52 56.782	+4.8983	−260	+78 14 30.96	−19.221	− 26
415	i Velorum	4.5	10 56 6.850	+2.7463	+ 20	−41 45 13.42	−19.276	− 4
416	β Ursae maj.	2.3	10 56 32.362	+3.6421	+101	+56 51 15.55	−19.256	+ 26
417	α Ursae maj.	1.8	10 58 18.425	+3.7299	−175	+62 13 34.58	−19.396	− 72
418	χ Leonis	4.8	11 0 28.727	+3.0966	−231	+ 7 48 43.06	−19.420	− 46
419	[χ Hydrae]	4.8	11 1 5.381	+2.8854	−154	−26 49 6.50	−19.394	− 7
420	ψ Ursae maj.	3.0	11 4 43.277	+3.3858	− 57	+44 58 34.07	−19.501	− 36

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
421	β Crateris	4.3	11 7 19.696	+2.9474	0	−22 20 42.68	−19.616	− 98
422	δ Leonis	2.4	11 9 25.826	+3.1955	+106	+21 0 21.61	−19.696	−136
423	ϑ Leonis	3.3	11 9 37.428	+3.1513	− 43	+15 54 38.62	−19.645	− 81
424	[Gr. 1757]	6.1	11 11 44.624	+3.3952	− 97	+49 57 23.89	−19.626	− 22
425	ν Ursae maj.	3.4	11 13 43.751	+3.2488	− 16	+33 34 28.54	−19.617	+ 22
426	δ Crateris	3.6	11 14 56.390	+2.9972	− 88	−14 18 7.89	−19.459	+200
427	σ Leonis	4.1	11 16 35.973	+3.0950	− 62	+ 6 30 42.34	−19.700	− 12
428	π Centauri	4.1	11 16 59.370	+2.7252	− 41	−54 0 31.11	−19.707	− 13
429	Gr. 1771	6.2	11 17 38.185	+3.5938	− 10	+64 48 44.14	−19.670	+ 34
430	[ι Leonis]	4.0	11 19 20.266	+3.1291	+106	+11 0 50.57	−19.815	− 84
431	[γ Crateris]	4.0	11 20 29.047	+2.9944	− 72	−17 12 1.80	−19.742	+ 7
432	[58 Ursae maj.]	6.1	11 25 45.690	+3.2580	− 44	+43 39 22.95	−19.751	+ 72
433	λ Draconis	3.6	11 26 11.592	+3.5989	− 80	+69 49 0.70	−19.850	− 21
434	ξ Hydrae	3.6	11 28 40.248	+2.9448	−167	−31 22 14.22	−19.901	− 43
435	[*C* Centauri]	5.5	11 31 39.365	+2.8961	+ 13	−47 9 12.72	−19.940	− 47
436	λ Centauri	3.3	11 31 42.980	+2.7503	− 58	−62 31 58.19	−19.910	− 17
437	υ Leonis	4.4	11 32 26.582	+3.0717	+ 1	− 0 20 16.27	−19.865	+ 36
438	[π Chamael.]	6.1	11 33 37.564	+2.4552	−277	−75 24 33.40	−19.918	− 5
439	[ο Hydrae]	4.8	11 35 50.377	+2.9738	− 30	−34 15 24.74	−19.934	+ 1
440	3 Draconis	5.4	11 37 34.479	+3.3758	− 78	+67 13 55.44	−19.910	+ 40
441	χ Ursae maj.	3.8	11 41 24.511	+3.1806	−134	+48 16 2.51	−19.960	+ 20
442	[λ Muscae]	3.7	11 41 26.815	+2.8118	−152	−66 14 27.12	−19.960	+ 20
443	[Centauri 65 G.]	4.2	11 42 15.080	+2.8859	− 25	−60 41 20.93	−20.021	− 35
444	β Leonis	2.1	11 44 34.332	+3.0626	−341	+15 3 50.50	−20.118	−118
445	β Virginis	3.5	11 46 6.684	+3.1252	+494	+ 2 15 38.31	−20.285	−276
446	[*B* Centauri]	4.8	11 46 44.387	+2.9850	−111	−44 41 2.20	−20.058	− 46
447	γ Ursae maj.	2.3	11 49 12.455	+3.1705	+108	+54 11 2.44	−20.021	+ 2
448	[ε Chamael.]	5.0	11 55 14.408	+2.9288	−160	−77 43 54.39	−20.050	− 9
449	[Centauri 88 G.]	5.5	11 59 5.787	+3.0945	+267	−41 56 28.71	−20.168	−122
450	ο Virginis	4.1	12 0 43.621	+3.0571	−147	+ 9 13 18.02	−20.008	+ 38
451	[Gr. 1852]	6.0	12 0 47.572	+3.0958	+440	+77 23 52.21	−20.142	− 96
452	δ Centauri	2.7	12 3 47.538	+3.0948	− 44	−50 13 56.26	−20.061	− 18
453	ε Corvi	3.0	12 5 35.789	+3.0807	− 51	−22 7 49.27	−20.029	+ 11
454	4 H. Draconis	5.0	12 8 5.368	+2.8509	+ 23	+78 6 18.77	−20.010	+ 23
455	[δ Crucis]	3.0	12 10 27.930	+3.1661	− 50	−58 15 34.22	−20.052	− 27

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ' "	"	
456	δ Ursae maj.	3.4	12 11 4.593	+2.9847	+136	+57 31 17.32	−20.020	+ 3
457	[γ Corvi]	2.4	12 11 16.708	+3.0815	−112	−17 3 12.15	−20.005	+ 17
458	[2 Can. ven.]	5.9	12 11 43.194	+3.0154	+ 26	+41 8 59.72	−20.065	− 45
459	β Chamael.	4.4	12 13 9.753	+3.4465	−142	−78 49 25.11	−20.001	+ 12
460	η Virginis	3.7	12 15 24.194	+3.0686	− 42	− 0 10 40.19	−20.024	− 23
461	[6 Can. ven.]	5.3	12 21 30.992	+2.9626	− 67	+39 30 24.35	−19.994	− 36
462	α Crucis md.	1.0	12 21 41.992	+3.3120	− 44	−62 36 42.59	−19.987	− 31
463	[Hydr. 323 G.]	5.7	12 22 13.200	+3.1531	− 14	−32 20 32.68	−20.001	− 49
464	[σ Centauri]	4.1	12 23 16.518	+3.2290	− 36	−49 44 36.10	−19.975	− 33
466	20 Comae	6.0	12 25 18.087	+3.0175	+ 26	+21 22 59.82	−19.963	− 39
465	δ Corvi	2.8	12 25 18.541	+3.1004	−145	−16 1 32.18	−20.066	−142
467	[74 Ursae maj.]	5.6	12 25 50.984	+2.8137	− 96	+58 53 23.33	−19.831	+ 88
468	[γ Crucis]	1.6	12 26 16.623	+3.3072	+ 26	−56 37 14.12	−20.192	−278
469	[γ Muscae]	3.9	12 27 11.909	+3.5414	− 81	−71 38 49.35	−19.926	− 22
470	8 Can. ven.	4.3	12 29 34.005	+2.8561	−625	+41 50 7.77	−19.599	+280
472	κ Draconis	3.6	12 29 43.989	+2.5787	−117	+70 16 23.47	−19.870	+ 7
471	β Corvi	2.6	12 29 45.688	+3.1452	− 4	−22 54 36.80	−19.936	− 59
473	24 Comae seq.	5.1	12 30 43.009	+3.0117	+ 2	+18 51 40.99	−19.848	+ 18
474	α Muscae	2.8	12 31 55.505	+3.5417	− 55	−68 39 3.07	−19.883	− 32
475	[χ Virginis]	4.9	12 34 42.190	+3.0942	− 49	− 7 30 41.24	−19.854	− 37
476	γ Centauri	2.3	12 36 39.420	+3.2925	−205	−48 28 35.86	−19.809	− 19
477	[γ Virgin. m.]	3.5,3.5	12 37 12.024	+3.0387	−375	− 0 58 1.01	−19.777	+ 5
478	76 Ursae maj.	6.2	12 37 43.529	+2.6346	− 45	+63 11 45.87	−19.792	− 17
479	[Hydr. 330 G.]	5.9	12 39 18.904	+3.1905	− 26	−27 50 28.35	−19.802	− 50
480	[β Muscae]	3.2	12 40 52.343	+3.6432	− 53	−67 37 35.54	−19.759	− 31
481	β Crucis	1.4	12 42 34.242	+3.4808	− 59	−59 12 28.20	−19.728	− 27
482	n Centauri	4.4	12 48 33.440	+3.3104	+ 45	−39 42 1.97	−19.635	− 37
483	ε Ursae maj.	1.7	12 50 9.690	+2.6489	+137	+56 26 14.30	−19.579	− 11
484	δ Virginis	3.4	12 51 10.209	+3.0210	−315	+ 3 52 31.52	−19.611	− 63
485	12 Can. ven. sq.	2.8	12 51 54.814	+2.8114	−199	+38 47 36.33	−19.483	+ 50
486	8 Draconis	5.2	12 51 58.564	+2.3988	− 15	+65 54 56.56	−19.566	− 34
487	[δ Muscae]	3.6	12 56 11.997	+4.0714	+527	−71 4 28.05	−19.482	− 36
488	ε Virginis	2.8	12 57 47.782	+2.9866	−185	+11 25 54.92	−19.394	+ 18
489	[ξ² Centauri]	4.3	13 1 45.981	+3.4848	− 35	−49 26 6.74	−19.352	− 30
490	ϑ Virginis	4.3	13 5 23.529	+3.1035	− 24	− 5 4 10.04	−19.275	− 39

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
491	[17 Can. ven.]	6.1	13ʰ 6ᵐ 0ˢ.886	+2ˢ.7596	− 59	+38° 57′ 58″.72	−19″.188	+ 32
492	43 Comae	4.2	13 7 46.084	+2.8024	−602	+28 19 26.33	−18.297	+879
493	[η Muscae]	5.0	13 9 16.380	+4.0263	− 33	−67 25 42.73	−19.166	− 30
494	[20 Can. ven.]	4.6	13 13 35.924	+2.6947	−108	+41 2 8.04	−19.013	+ 8
495	γ Hydrae	3.1	13 14 8.081	+3.2554	+ 51	−22 42 27.33	−19.060	− 53
496	ι Centauri	2.9	13 15 38.695	+3.3608	−293	−36 14 54.29	−19.056	− 92
497	ζ Urs. maj. pr.	2.2	13 20 23.086	+2.4217	+144	+55 23 4.88	−18.851	− 25
498	α Virginis	1.1	13 20 33.298	+3.1567	− 28	−10 42 8.26	−18.854	− 33
499	Gr. 2001	6.2	13 23 53.337	+1.5262	+ 35	+72 50 53.77	−18.733	− 15
500	69 H. Urs. maj.	5.5	13 25 13.427	+2.2068	−110	+60 24 0.29	−18.639	+ 37
501	ζ Virginis	3.3	13 30 12.478	+3.0548	−190	− 0 8 46.82	−18.478	+ 35
502	17 H. Can. ven.	4.9	13 30 52.126	+2.6811	+ 64	+37 37 58.58	−18.504	− 14
503	[Chamael. 49 G.]	6.4	13 31 38.585	+5.0416	− 49	−75 14 7.21	−18.478	− 14
504	ε Centauri	2.4	13 34 18.225	+3.7786	− 37	−53 1 9.73	−18.406	− 34
505	[Gr. 2029]	5.9	13 35 4.059	+1.4364	− 86	+71 41 23.66	−18.346	0
506	[*i* Centauri]	4.3	13 40 40.948	+3.3990	−371	−32 35 56.63	−18.298	−156
507	τ Bootis	4.5	13 43 4.820	+2.8509	−340	+17 53 41.87	−18.024	+ 29
509	η Ursae maj.	1.8	13 44 4.493	+2.3681	−119	+49 45 7.76	−18.034	− 20
508	[μ Centauri]	3.3	13 44 18.565	+3.5993	− 28	−42 2 8.02	−18.024	− 19
510	89 Virginis	5.2	13 45 5.249	+3.2544	− 69	−17 41 46.12	−18.013	− 38
511	[*i* Draconis]	4.8	13 48 51.725	+1.7524	0	+65 9 28.05	−17.829	− 2
512	ζ Centauri	2.6	13 50 2.567	+3.7242	− 70	−46 51 20.11	−17.840	− 60
513	η Bootis	2.8	13 50 29.680	+2.8570	− 42	+18 50 18.47	−18.125	−364
514	[Cent. 294 G.]	4.9	13 51 16.141	+4.3055	− 46	−63 15 20.38	−17.764	− 35
515	[47 Hydrae]	5.5	13 53 34.681	+3.3593	− 34	−24 32 35.21	−17.675	− 40
516	τ Virginis	4.2	13 57 10.015	+3.0513	+ 13	+ 1 58 11.78	−17.513	− 30
517	11 Bootis	6.3	13 57 11.108	+2.7219	− 57	+27 48 40.46	−17.474	+ 8
518	β Centauri	1	13 57 36.192	+4.2037	− 28	−59 56 56.39	−17.504	− 40
519	[π Hydrae]	3.4	14 1 21.375	+3.4085	+ 29	−26 15 32.04	−17.453	−153
520	ϑ Centauri	2.1	14 1 29.900	+3.5185	−439	−35 56 14.98	−17.824	−530
521	α Draconis	3.4	14 2 0.359	+1.6230	− 83	+64 47 46.43	−17.255	+ 17
522	*d* Bootis	4.9	14 6 23.169	+2.7373	− 12	+25 30 29.26	−17.144	− 69
523	κ Virginis	4.2	14 8 11.959	+3.1963	+ 4	− 9 51 52.37	−16.856	+134
524	4 Ursae min.	5.0	14 9 10.406	−0.2865	−113	+77 57 39.74	−16.913	+ 32
525	ι Virginis	4.0	14 11 23.869	+3.1420	− 14	− 5 34 51.87	−17.271	−431

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
526	α Bootis	1	14 11 38.828	+2.7357	− 778	+19 38 24.55	−18.828	−1999
527	λ Bootis	4.0	14 13 2.359	+2.2827	− 177	+46 29 31.23	−16.610	+ 152
528	[ι Bootis]	4.6	14 13 3.000	+2.1261	− 159	+51 46 22.10	−16.676	+ 86
529	[υ Centauri]	4.4	14 14 10.100	+4.1619	− 47	−55 58 54.23	−16.747	− 39
530	[Circini 10 G.]	5.9	14 17 47.449	+4.9205	− 41	−67 47 44.93	−16.567	− 36
531	ϑ Bootis	3.9	14 22 12.089	+2.0431	− 257	+52 15 25.72	−16.714	− 404
532	[52 Hydrae]	5.1	14 23 0.904	+3.5043	− 28	−29 5 48.02	−16.298	− 30
533	[φ Virginis]	5.0	14 23 40.008	+3.0886	− 90	− 1 50 2.30	−16.242	− 7
534	ρ Bootis	3.7	14 28 2.265	+2.5863	− 75	+30 45 26.10	−15.894	+ 113
535	γ Bootis	2.9	14 28 32.101	+2.4171	− 93	+38 41 33.91	−15.837	+ 145
536	[Gr. 2125]	6.4	14 29 19.448	+1.6277	− 59	+60 36 47.24	−15.921	+ 19
537	η Centauri	2.5	14 29 54.810	+3.7953	− 36	−41 46 18.57	−15.944	− 36
538	α Centauri[1]	1	14 33 36.776	+4.0513	−4869	−60 28 21.96	−14.993	+ 716
539	[α Circini]	3.3	14 35 22.821	+4.8053	− 320	−64 35 33.15	−15.851	− 238
540	[33 Bootis]	5.5	14 35 33.744	+2.2331	− 68	+44 47 2.32	−15.628	− 26
541	[α Lupi]	2.4	14 36 4.229	+3.9731	− 20	−47 0 39.97	−15.611	− 36
542	α Apodis	3.8	14 36 52.605	+7.2849	− 57	−78 40 20.28	−15.565	− 35
543	ζ Bootis m.	3.6	14 36 56.758	+2.8639	+ 37	+14 6 18.92	−15.553	− 27
544	[c¹ Centauri]	4.1	14 38 16.204	+3.6580	− 61	−34 47 43.29	−15.651	− 198
545	μ Virginis	3.9	14 38 25.239	+3.1581	+ 69	− 5 16 34.27	−15.771	− 327
546	[b Lupi]	5.9	14 40 51.518	+4.1750	− 25	−52 0 42.08	−15.400	− 92
547	109 Virginis	3.7	14 41 47.921	+3.0308	− 75	+ 2 15 47.23	−15.294	− 39
548	α Librae	2.7	14 46 0.441	+3.3134	− 77	−15 40 36.02	−15.087	− 73
549	Gr. 2164	5.8	14 49 12.277	+1.5194	− 170	+59 39 4.47	−14.697	+ 130
550	β Ursae min.	2.0	14 50 56.997	−0.2089	− 79	+74 30 54.57	−14.716	+ 7
551	P. XIV, 221	6.0	14 52 3.976	+2.8306	− 10	+14 48 4.80	−14.675	− 18
552	β Lupi	2.7	14 52 45.690	+3.9139	− 51	−42 46 48.53	−14.675	− 60
553	[κ Centauri]	3.2	14 53 25.854	+3.8894	− 21	−41 45 6.07	−14.608	− 33
554	[2 H. Urs. min.]	4.8	14 56 10.767	+0.9430	− 148	+66 16 58.17	−14.375	+ 34
555	β Bootis	3.3	14 58 37.873	+2.2600	− 36	+40 44 13.70	−14.302	− 43
556	γ Scorpii	3.4	14 58 54.956	+3.5042	− 57	−24 56 12.43	−14.297	− 55
557	ψ Bootis	4.5	15 0 40.482	+2.5705	− 131	+27 17 24.83	−14.148	− 15
558	ζ Lupi	3.4	15 5 57.294	+4.2894	− 133	−51 45 53.93	−13.874	− 72
559	[ι Librae]	4.6	15 7 12.124	+3.4136	− 32	−19 27 33.65	−13.770	− 47
561	[β Circini]	4.2	15 10 36.896	+4.6697	− 130	−58 28 23.87	−13.652	− 149

[1]) Schwerpunkt des Systems. Abstände vom Schwerpunkt (Peters. Neuer Fundamental-Katalog. Seite 99):

heller Stern	1912.0:	$\Delta\alpha = +0^s.693$	$\Delta\delta = +7''.22$
	1913.0:	$+0.686$	$+7.00$
Begleiter	1912.0:	$\Delta\alpha = -0^s.816$	$\Delta\delta = -8''.49$
	1913.0:	-0.808	-8.22

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
560	γ Triang. austr.	2.9	15 10 40.712	+5.5521	—101	—68 21 19.27	—13.536	— 37
562	[3 Serpentis]	5.5	15 10 48.830	+2.9802	— 12	+ 5 15 55.51	—13.497	— 7
563	δ Bootis	3.2	15 11 57.298	+2.4190	+ 73	+33 38 33.33	—13.538	— 122
564	β Librae	2.5	15 12 16.171	+3.2246	— 64	— 9 3 31.88	—13.423	— 27
565	1 H. Urs. min.	5.3	15 13 37.434	+0.6765	+386	+67 40 50.61	—13.703	— 396
566	φ^1 Lupi	3.5	15 16 13.044	+3.7962	— 82	—35 56 34.14	—13.231	— 94
569	γ Ursae min.	3.0	15 20 51.551	—0.1191	— 32	+72 8 49.65	—12.811	+ 16
568	μ Bootis	4.1	15 21 9.942	+2.2661	—123	+37 41 7.02	—12.726	+ 81
570	[τ^1 Serpentis]	5.5	15 21 42.465	+2.7812	— 11	+15 44 12.57	—12.794	— 24
567	[$\varkappa^1$ Apodis]	5.9	15 21 54.000	+6.4628	+ 5	—73 5 7.28	—12.795	— 37
571	ι Draconis	3.2	15 22 58.220	+1.3311	— 5	+59 16 26.54	—12.671	+ 14
572	β Coron. bor.	3.7	15 24 12.040	+2.4736	—131	+29 24 30.59	—12.526	+ 76
573	ν^1 Bootis	4.8	15 27 46.086	+2.1546	+ 10	+41 7 57.18	—12.370	— 13
574	[ε Triang. austr.]	4.3	15 28 39.155	+5.4484	+ 29	—66 1 19.38	—12.378	— 82
575	γ Lupi	2.9	15 29 16.254	+3.9852	— 26	—40 52 18.04	—12.293	— 39
576	[ϑ Coron. bor.]	4.1	15 29 22.842	+2.4185	— 17	+31 39 19.91	—12.272	— 26
577	γ Librae	4.1	15 30 36.073	+3.3516	+ 43	—14 29 47.99	—12.158	+ 3
578	α Coron. bor.	2.2	15 30 57.698	+2.5396	+ 93	+27 0 36.96	—12.235	— 98
579	[3 H. Scorpii]	3.9	15 31 40.694	+3.6346	— 11	—27 50 39.59	—12.097	— 11
580	[φ Bootis]	5.3	15 34 39.971	+2.1544	+ 58	+40 38 21.96	—11.825	+ 52
581	[γ Coron. bor.]	3.8	15 39 2.824	+2.5192	— 74	+26 34 25.64	—11.532	+ 34
582	α Serpentis	2.5	15 39 55.941	+2.9531	+ 91	+ 6 42 6.64	—11.461	+ 42
583	β Serpentis	3.4	15 42 7.538	+2.7680	+ 51	+15 41 47.64	—11.400	— 55
584	ϰ Serpentis	4.0	15 44 46.687	+2.6998	— 31	+18 24 45.65	—11.251	— 98
585	μ Serpentis	3.3	15 45 1.563	+3.1280	— 59	— 3 9 41.79	—11.166	— 31
586	[χ Lupi]	4.1	15 45 21.754	+3.8034	— 15	—33 21 35.11	—11.141	— 30
587	[12 H. Dracon.]	5.3	15 45 19.310	+0.9073	+ 55	+62 52 16.63	—11.175	— 62
588	ε Serpentis	3.5	15 46 25.690	+2.9884	+ 84	+ 4 44 30.96	—10.973	+ 59
590	ζ Ursae min.	4.3	15 47 10.602	—2.2118	+ 60	+78 3 56.43	—10.979	— 1
589	β Triang. austr.	2.9	15 47 22.723	+5.2556	—280	—63 9 35.95	—11.370	— 407
591	[γ Serpentis]	3.7	15 52 23.249	+2.7695	+212	+15 56 53.27	—11.889	—1295
592	[π Scorpii]	4.1	15 53 31.487	+3.6229	— 15	—25 51 41.76	—10.546	— 37
593	ε Coron. bor.	4.0	15 53 56.612	+2.4826	— 61	+27 7 55.51	—10.546	— 68
594	δ Scorpii	2.3	15 55 7.636	+3.5422	— 8	—22 22 19.45	—10.426	— 36
595	[Gr. 2296]	5.1	15 55 42.033	+1.4193	—187	+54 59 52.98	—10.236	+ 111

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
596	[δ Normae]	4.8	16 0 15.989	+4.2275	− 5	−44 56 7.41	− 9.997	+ 6
598	ϑ Draconis	3.8	16 0 14.313	+1.1202	−402	+58 48 0.06	− 9.665	+340
597	β Scorpii	2.6	16 0 19.046	+3.4835	− 7	−19 33 55.31	−10.026	− 27
599	[ϑ Lupi]	4.4	16 0 48.546	+3.9298	− 29	−36 33 48.58	−10.002	− 41
601	[φ Herculis]	4.0	16 5 59.786	+1.8891	− 23	+45 9 54.43	− 9.534	+ 31
600	[κ Normae]	5.3	16 6 31.791	+4.7111	− 42	−54 24 14.17	− 9.589	− 65
602	[δ Triang. austr.]	4.0	16 7 25.126	+5.4328	+ 7	−63 27 42.53	− 9.482	− 26
603	δ Ophiuchi	2.8	16 9 43.951	+3.1413	− 30	− 3 28 6.57	− 9.426	−150
604	γ^2 Normae	4.2	16 13 14.943	+4.4736	−190	−49 56 25.77	− 9.064	− 61
606	19 Ursae min.	5.8	16 13 19.068	−1.7532	− 4	+76 5 58.28	− 8.985	+ 12
605	ε Ophiuchi	3.2	16 13 39.808	+3.1715	+ 53	− 4 28 43.56	− 8.940	+ 31
607	[σ Scorpii]	3.1	16 15 50.203	+3.6412	− 11	−25 22 56.90	− 8.834	− 33
608	τ Herculis	3.6	16 17 5.694	+1.8020	− 9	+46 31 20.86	− 8.669	+ 32
609	γ Herculis	3.5	16 18 2.234	+2.6451	− 36	+19 21 32.91	− 8.587	+ 40
610	[ζ Triang. austr.]	5.2	16 18 59.231	+6.4098	+366	−69 53 14.13	− 8.469	+ 83
611	γ Apodis	3.9	16 19 55.161	+9.0952	−385	−78 42 4.32	− 8.549	− 70
612	[η Ursae min.]	5.1	16 20 3.720	−1.7924	−215	+75 57 30.74	− 8.211	+256
613	[ω Herculis]	4.7	16 21 21.229	+2.7673	+ 28	+14 14 6.41	− 8.433	− 68
614	[Gr. 2343]	5.8	16 22 29.788	+1.3097	+ 20	+55 24 17.52	− 8.255	+ 18
615	η Draconis	2.7	16 22 47.782	+0.8065	− 28	+61 42 47.55	− 8.189	+ 61
616	α Scorpii	1.2	16 24 0.545	+3.6736	− 7	−26 14 15.15	− 8.181	− 28
618	β Herculis	2.6	16 26 26.179	+2.5780	− 69	+21 40 50.52	− 7.979	− 21
617	[λ Ophiuchi]	3.7	16 26 28.430	+3.0237	− 23	+ 2 10 32.52	− 8.045	− 90
619	*A* Draconis	5.0	16 28 8.957	−0.1312	− 51	+68 57 30.83	− 7.785	+ 35
620	[τ Scorpii]	2.9	16 30 24.084	+3.7294	− 11	−28 2 3.44	− 7.672	− 33
621	σ Herculis	4.1	16 31 15.940	+1.9333	− 6	+42 37 4.89	− 7.530	+ 38
622	ζ Ophiuchi	2.6	16 32 18.696	+3.3008	+ 9	−10 23 22.66	− 7.462	+ 22
623	[Gr. 2373]	6.5	16 34 24.676	−2.6288	−315	+77 37 20.02	− 7.038	+275
624	[24 Scorpii]	5.2	16 36 28.886	+3.4661	− 18	−17 34 21.39	− 7.147	− 2
625	α Triang. austr.	1.9	16 39 20.135	+6.3213	+ 32	−68 52 2.79	− 6.960	− 49
626	η Herculis	3.3	16 39 52.723	+2.0560	+ 34	+39 5 20.85	− 6.950	− 84
627	Gr. 2377	4.9	16 43 37.583	+1.1353	+ 29	+56 56 19.55	− 6.499	+ 58
628	ε Scorpii	2.3	16 44 27.618	+3.8797	−501	−34 8 3.35	− 6.742	−254
629	49 Herculis	6.5	16 48 4.428	+2.7303	+ 12	+15 7 16.19	− 6.195	− 6
630	ζ^2 Scorpii	3.8	16 48 23.199	+4.2127	−134	−42 12 41.21	− 6.400	−238

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
			h m s	s		° ′ ″	″	
631	ζ Arae	3.0	16 51 19.978	+4.9521	− 30	−55 51 7.77	−5.964	− 48
632	[ε¹ Arae]	4.0	16 52 33.876	+4.7695	− 19	−53 1 34.39	−5.822	− 8
633	ϰ Ophiuchi	3.2	16 53 30.128	+2.8382	−198	+ 9 30 39.99	−5.748	− 12
634	ε Herculis	3.6	16 56 55.336	+2.2947	− 35	+31 3 19.40	−5.424	+ 24
635	[60 Herculis]	4.9	17 1 17.805	+2.7808	+ 34	+12 51 39.40	−5.094	− 15
636	[Gr. 2415]	6.4	17 4 54.470	+1.9559	− 29	+40 37 50.07	−4.800	− 28
637	η Ophiuchi	2.4	17 5 19.786	+3.4378	+ 23	−15 37 0.34	−4.646	+ 90
638	[η Scorpii]	3.4	17 5 50.861	+4.2911	+ 17	−43 7 26.68	−4.991	−298
639	ζ Draconis	3.0	17 8 31.766	+0.1677	− 28	+65 49 22.63	−4.442	+ 22
640	α Herculis	(3.0)	17 10 38.053	+2.7344	− 8	+14 29 23.68	−4.256	+ 29
641	δ Herculis	3.0	17 11 24.993	+2.4635	− 15	+24 56 32.44	−4.376	−159
643	π Herculis	3.1	17 11 58.897	+2.0888	− 21	+36 54 27.99	−4.168	+ 1
642	[ι Apodis]	5.7	17 12 16.479	+6.6698	− 14	−70 1 55.10	−4.171	− 27
644	ϑ Ophiuchi	3.2	17 16 36.204	+3.6815	− 7	−24 54 45.06	−3.798	− 25
645	β Arae	2.7	17 17 58.889	+4.9794	− 14	−55 26 51.93	−3.696	− 42
646	[*d* Ophiuchi]	4.5	17 21 43.987	+3.8275	+ 6	−29 47 17.54	−3.476	−145
647	[27 H. Ophiuchi]	4.5	17 21 57.687	+3.1822	− 58	− 5 0 34.56	−3.362	− 51
648	δ Arae	3.6	17 23 9.112	+5.4077	− 70	−60 36 41.17	−3.310	−101
650	[*x* Herculis]	6.0	17 24 24.261	+1.5892	+ 2	+48 20 0.07	−3.119	− 19
649	[υ Scorpii]	2.8	17 24 46.649	+4.0736	− 24	−37 13 35.37	−3.108	− 39
651	α Arae	2.8	17 25 2.196	+4.6322	− 39	−49 48 26.69	−3.140	− 94
652	λ Scorpii	1.7	17 27 37.846	+4.0697	− 14	−37 2 25.67	−2.854	− 32
653	β Draconis	2.7	17 28 26.627	+1.3543	− 15	+52 21 58.10	−2.742	+ 10
655	[ν¹ Draconis]	4.7	17 30 26.566	+1.1802	+176	+55 14 38.48	−2.527	+ 51
657	[ν² Draconis]	4.8	17 30 31.971	+1.1815	+182	+55 13 57.15	−2.519	+ 52
656	α Ophiuchi	2.1	17 30 50.933	+2.7836	+ 79	+12 37 24.01	−2.776	−233
654	ϑ Scorpii	1.9	17 30 59.591	+4.3063	0	−42 56 34.08	−2.548	− 18
659	[*f* Draconis]	5.2	17 32 18.833	−0.2460	− 32	+68 11 28.12	−2.282	+134
658	ξ Serpentis	3.5	17 32 32.798	+3.4332	− 34	−15 20 38.32	−2.460	− 64
660	[ϰ Scorpii]	2.5	17 36 23.889	+4.1470	− 15	−38 59 7.64	−2.087	− 26
663	ι Herculis	3.6	17 36 58.811	+1.6926	− 5	+46 3 9.38	−2.014	− 4
661	η Pavonis	3.5	17 37 5.548	+5.8813	− 22	−64 40 57.98	−2.056	− 56
662	[μ Arae]	5.6	17 37 9.323	+4.7588	− 29	−51 47 17.37	−2.203	−208
664	ω Draconis	4.9	17 37 27.873	−0.3547	+ 14	+68 47 55.40	−1.645	+323
665	β Ophiuchi	2.8	17 39 7.485	+2.9627	− 27	+ 4 36 11.73	−1.670	+153

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
			h m s	s		° ′ ″	″	
666	[ι¹ Scorpii]	3.0	17 41 25.677	+4.1929	− 10	−40 5 37.35	−1.625	− 3
667	μ Herculis	3.3	17 43 0.812	+2.3466	− 242	+27 46 17.49	−2.235	−750
668	[γ Ophiuchi]	3.7	17 43 28.783	+3.0072	− 16	+ 2 44 22.59	−1.521	− 77
670	ψ Drac. austr.	4.7	17 43 30.035	−1.0743	+ 28	+72 11 32.26	−1.709	−267
669	[G Scorpii]	3.1	17 43 52.025	+4.0819	+ 42	−37 0 57.97	−1.384	+ 26
671	ξ Draconis	3.6	17 52 0.416	+1.0369	+ 120	+56 53 10.18	−0.623	+ 76
672	θ Herculis	3.8	17 53 14.084	+2.0568	+ 4	+37 15 41.81	−0.587	+ 5
675	35 Draconis	5.1	17 53 23.200	−2.6904	+ 118	+76 58 30.37	−0.337	+241
673	ν Ophiuchi	3.4	17 54 10.883	+3.3017	− 7	− 9 45 48.79	−0.627	−118
674	[ξ Herculis]	3.7	17 54 20.697	+2.3308	+ 66	+29 15 24.00	−0.520	− 26
676	γ Draconis	2.3	17 54 33.741	+1.3922	− 9	+51 29 55.78	−0.498	− 22
677	67 Ophiuchi	4.0	17 56 14.241	+3.0040	0	+ 2 56 6.17	−0.342	− 13
678	[Apodis 66 G.]	6.0	17 58 56.850	+8.3861	− 50	−75 53 42.06	−0.362	−270
679	γ Sagittarii	3.0	18 0 9.240	+3.8527	− 48	−30 25 33.72	−0.181	−194
680	72 Ophiuchi	3.6	18 3 10.639	+2.8436	− 42	+ 9 33 2.16	+0.356	+ 79
681	ο Herculis	3.8	18 4 6.570	+2.3397	+ 2	+28 44 58.96	+0.359	0
682	μ Sagittarii	3.9	18 8 30.018	+3.5872	− 3	−21 4 57.82	+0.740	− 3
683	[η Sagittarii]	3.1	18 11 40.316	+4.0589	− 118	−36 47 20.15	+0.858	−163
684	[Gr. 2533]	5.6	18 12 54.516	+1.8652	− 6	+42 7 43.54	+1.122	− 7
685	[36 Draconis]	5.0	18 13 23.406	+0.3454	+ 533	+64 22 2.38	+1.200	+ 29
686	[ξ Pavonis]	4.2	18 15 6.989	+5.5295	− 26	−61 32 5.09	+1.338	+ 17
687	[δ Sagittarii]	2.7	18 15 21.614	+3.8410	+ 27	−29 51 58.77	+1.311	− 32
688	η Serpentis	3.2	18 16 45.365	+3.1033	− 373	− 2 55 20.84	+0.766	−698
689	ε Sagittarii	1.9	18 18 19.853	+3.9826	− 30	−34 25 37.23	+1.475	−127
690	109 Herculis	3.9	18 19 56.865	+2.5559	+ 140	+21 43 44.27	+1.485	−257
691	α Telescopii	3.7	18 20 26.908	+4.4496	− 21	−46 1 3.81	+1.739	− 47
693	[φ Draconis]	4.3	18 22 1.235	−0.8571	− 17	+71 17 28.14	+1.956	+ 33
692	[λ Sagittarii]	2.8	18 22 32.378	+3.7024	− 37	−25 28 16.15	+1.781	−188
694	b Draconis	5.1	18 22 37.539	+0.8766	− 45	+58 44 57.99	+2.034	+ 59
695	χ Draconis	3.6	18 22 38.668	−1.0794	+1165	+72 41 41.66	+1.612	−366
696	[2 H. Scuti]	4.8	18 24 10.907	+3.4190	− 3	−14 37 21.50	+2.113	+ 2
697	[θ Coron. austr.]	4.7	18 27 13.123	+4.2847	+ 14	−42 22 36.35	+2.351	− 24
698	ζ Pavonis	4.0	18 32 45.474	+7.0245	− 26	−71 30 18.08	+2.678	−178
699	α Lyrae	1	18 33 57.526	+2.0312	+ 176	+38 42 4.27	+3.240	+281
700	[Gr. 2655]	6.1	18 34 0.375	−2.8800	− 10	+77 28 44.55	+2.961	− 3

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
701	[Gr. 2640]	6.2	18ʰ 35ᵐ 56ˢ.730	+0ˢ.1900	+ 19	+65° 24′ 35″.45	+3″.215	+ 84
702	[5 H. Scuti]	5.1	18 38 43.709	+3.2675	+ 13	− 8 21 46.39	+3.381	+ 9
703	110 Herculis	4.1	18 41 52.454	+2.5810	− 12	+20 27 41.06	+3.302	−340
704	λ Pavonis	4.3	18 44 3.950	+5.5675	− 26	−62 17 22.21	+3.803	− 27
705	β Lyrae	(3.3)	18 46 49.850	+2.2146	+ 3	+33 15 35.86	+4.066	− 2
706	σ Sagittarii	2.1	18 49 48.550	+3.7210	+ 4	−26 24 24.82	+4.260	− 63
707	ο Draconis	4.6	18 49 54.225	+0.8872	+105	+59 16 49.85	+4.355	+ 24
708	λ Telescopii	5.1	18 51 25.479	+4.8053	+ 3	−53 3 16.49	+4.475	+ 14
709	ϑ Serpent. pr.	4.5	18 51 50.690	+2.9824	+ 29	+ 4 5 17.87	+4.524	+ 28
710	[ξ Sagittarii]	3.6	18 52 28.836	+3.5798	+ 18	−21 13 23.31	+4.534	− 16
711	*R* Lyrae	(4.5)	18 52 39.455	+1.8262	+ 28	+43 49 46.67	+4.641	+ 76
714	[υ Draconis]	5.0	18 55 28.782	−0.7238	+104	+71 10 47.02	+4.846	+ 40
712	[ε Aquilae]	4.0	18 55 37.687	+2.7220	− 42	+14 56 53.03	+4.738	− 80
713	γ Lyrae	3.2	18 55 39.084	+2.2436	− 4	+32 34 5.69	+4.818	− 2
715	[ζ Sagittarii]	2.7	18 57 0.803	+3.8185	− 21	−30 0 24.01	+4.938	+ 2
716	ζ Aquilae	3.0	19 1 21.916	+2.7569	− 7	+13 43 54.90	+5.203	−101
717	λ Aquilae	3.2	19 1 34.747	+3.1840	− 16	− 5 0 54.90	+5.235	− 87
718	α Coron. austr.	4.1	19 3 29.174	+4.0843	+ 59	−38 2 32.71	+5.373	−110
719	[ι Lyrae]	5.2	19 4 9.684	+2.1405	− 3	+35 57 41.83	+5.536	− 3
720	π Sagittarii	2.9	19 4 31.866	+3.5690	− 5	−21 9 51.54	+5.535	− 35
721	[Pavonis 60 G.]	5.7	19 8 21.527	+6.0542	− 7	−66 48 50.45	+5.870	− 21
722	[*d* Sagittarii]	5.2	19 12 29.224	+3.5114	− 12	−19 6 36.88	+6.226	− 9
723	δ Draconis	3.0	19 12 32.271	+0.0222	+167	+67 30 24.15	+6.327	+ 87
724	ϑ Lyrae	4.3	19 13 18.795	+2.0816	− 7	+37 58 35.13	+6.302	− 1
725	ω Aquilae	5.4	19 13 41.152	+2.8158	− 3	+11 26 9.64	+6.348	+ 13
726	κ Cygni	3.8	19 15 4.180	+1.3877	+ 69	+53 12 20.46	+6.569	+119
727	[υ Sagittarii]	4.5	19 16 41.304	+3.4374	0	−16 7 15.21	+6.581	− 2
729	τ Draconis	4.5	19 17 15.113	−1.1350	−324	+73 11 32.70	+6.740	+110
728	α Sagittarii	4.0	19 17 47.449	+4.1614	+ 18	−40 46 56.22	+6.556	−118
730	δ Aquilae	3.3	19 21 3.696	+3.0250	+168	+ 2 56 18.91	+7.024	+ 81
731	[Sagittar. 186 G.]	5.8	19 21 22.879	+3.7943	+ 7	−29 55 4.84	+6.923	− 47
734	[Gr. 2900]	6.4	19 27 2.352	−3.5675	+ 95	+79 25 38.02	+7.396	− 35
732	β Cygni	3.0	19 27 10.330	+2.4189	− 2	+27 46 27.22	+7.435	− 8
733	ι Cygni	3.9	19 27 29.262	+1.5134	+ 23	+51 32 30.60	+7.592	+125
735	[ι Telescopii]	5.1	19 28 41.384	+4.4569	− 42	−48 17 22.84	+7.525	− 40

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0ˢ.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0″.001
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736	h Sagittarii	4.6	19 31 21.206	+3.6535	+ 46	−25 4 42.96	+ 7.758	− 22
737	[κ Aquilae]	5.0	19 32 9.486	+3.2287	+ 3	− 7 13 25.75	+ 7.846	0
738	ϑ Cygni	4.5	19 34 4.892	+1.6085	− 28	+50 1 0.51	+ 8.247	+ 247
739	[ν Telescopii]	5.5	19 40 50.285	+4.9131	+ 86	−56 34 29.64	+ 8.401	− 137
740	[15 Cygni]	5.2	19 41 6.160	+2.1631	+ 59	+37 8 28.49	+ 8.594	+ 35
741	γ Aquilae	2.7	19 42 4.561	+2.8521	+ 9	+10 23 53.38	+ 8.636	0
742	δ Cygni	2.8	19 42 13.487	+1.8756	+ 51	+44 54 55.62	+ 8.687	+ 39
743	δ Sagittae	3.8	19 43 27.830	+2.6749	+ 4	+18 18 59.50	+ 8.758	+ 13
744	[51 Aquilae]	5.8	19 45 56.353	+3.3027	− 21	−10 59 14.71	+ 8.981	+ 41
745	α Aquilae	1	19 46 29.382	+2.9271	+ 360	+ 8 38 6.89	+ 9.365	+ 382
746	[η Aquilae]	(4.0)	19 47 59.440	+3.0570	+ 6	+ 0 46 44.66	+ 9.091	− 9
747	ε Draconis	3.8	19 48 28.607	−0.1876	+ 156	+70 2 37.63	+ 9.167	+ 29
748	ε Pavonis	3.8	19 50 25.858	+6.9957	+ 146	−73 8 38.04	+ 9.158	− 132
749	β Aquilae	3.7	19 50 59.441	+2.9468	+ 24	+ 6 11 10.67	+ 8.853	− 480
750	ψ Cygni	5.0	19 53 21.304	+1.5516	− 43	+52 12 17.68	+ 9.485	− 31
751	ϑ¹ Sagittarii	4.3	19 54 0.624	+3.9096	− 12	−35 30 54.02	+ 9.530	− 36
752	γ Sagittae	3.6	19 54 50.600	+2.6675	+ 43	+19 15 9.00	+ 9.654	+ 24
753	[c Sagittarii]	4.6	19 57 14.937	+3.6931	+ 21	−27 57 18.77	+ 9.831	+ 18
754	δ Pavonis	3.5	20 0 6.180	+5.9178	+1959	−66 24 26.82	+ 8.866	−1165
755	[ξ Telescopii]	5.2	20 0 38.825	+4.6090	− 44	−53 8 0.76	+10.070	− 2
756	ϑ Aquilae	3.1	20 6 45.896	+3.0962	+ 22	− 1 4 59.41	+10.536	+ 5
757	o¹ Cygni sq.	4.3	20 10 51.634	+1.8891	+ 4	+46 28 26.18	+10.835	+ 1
758	[33 Cygni]	4.3	20 11 21.174	+1.3964	+ 74	+56 17 53.50	+10.955	+ 85
759	κ Cephei	4.3	20 11 52.287	−1.9615	+ 12	+77 26 48.61	+10.935	+ 27
760	24 Vulpecul.	5.7	20 13 1.148	+2.5669	+ 12	+24 23 57.90	+10.973	− 19
761	α² Capricorni	3.6	20 13 10.401	+3.3308	+ 40	−12 49 5.61	+11.015	+ 11
762	[β Capricorni]	3.1	20 16 4.100	+3.3729	+ 23	−15 3 35.78	+11.220	+ 6
763	[κ¹ Sagittarii]	5.8	20 16 29.249	+4.0840	+ 37	−42 19 39.57	+11.149	− 96
764	α Pavonis	1.9	20 18 41.574	+4.7672	+ 11	−57 1 3.92	+11.319	− 85
765	γ Cygni	2.3	20 19 4.177	+2.1526	+ 4	+39 58 28.23	+11.431	0
766	[ρ Capricorni]	5.0	20 23 50.567	+3.4249	− 14	−18 6 18.75	+11.756	− 16
767	ϑ Cephei	4.1	20 28 6.430	+1.0119	+ 62	+62 41 53.03	+12.057	− 14
768	ε Delphini	3.9	20 29 0.533	+2.8663	+ 5	+11 0 12.74	+12.109	− 25
769	α Jndi	3.0	20 31 22.883	+4.2316	+ 33	−47 35 56.58	+12.359	+ 60
770	73 Draconis	5.3	20 32 40.884	−0.7541	+ 15	+74 39 11.46	+12.377	− 12

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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771	β Delphini	3.5	20 33 25.347	+2.8131	+ 74	+14 17 18.25	+12.403	— 36
772	[κ Delphini]	5.1	20 34 51.322	+2.9141	+ 212	+ 9 46 32.32	+12.555	+ 18
773	υ Capricorni	5.5	20 35 2.526	+3.4185	— 17	—18 26 56.91	+12.534	— 16
774	α Delphini	3.7	20 35 33.042	+2.7866	+ 45	+15 36 3.56	+12.579	— 6
775	β Pavonis	3.3	20 37 2.492	+5.4475	— 71	—66 31 12.95	+12.688	+ 2
776	[η Jndi]	4.8	20 37 34.938	+4.4214	+ 157	—52 14 9.90	+12.649	— 73
777	α Cygni	1.3	20 38 25.893	+2.0446	+ 4	+44 57 55.43	+12.779	— 1
778	[δ Delphini]	4.2	20 39 21.036	+2.8008	— 14	+14 45 29.75	+12.794	— 48
779	[ψ Capricorni]	4.2	20 40 53.255	+3.5568	— 44	—25 35 16.16	+12.788	— 157
780	ε Cygni	2.4	20 42 39.010	+2.4270	+ 290	+33 38 24.44	+13.389	+ 327
781	ε Aquarii	3.6	20 42 54.805	+3.2496	+ 17	— 9 49 6.53	+13.051	— 28
782	[6 H. Cephei]	4.5	20 43 10.097	+1.4901	— 87	+57 15 48.90	+12.862	— 234
783	η Cephei	3.5	20 43 30.104	+1.2251	+ 134	+61 29 48.07	+13.937	+ 818
784	λ Cygni	4.6	20 43 58.812	+2.3358	+ 5	+36 10 0.73	+13.150	0
785	β Jndi	3.6	20 47 56.359	+4.7119	0	—58 47 12.51	+13.382	— 27
786	32 Vulpeculae	5.3	20 50 48.544	+2.5561	— 4	+27 43 20.70	+13.596	+ 1
788	ν Cygni	3.9	20 53 53.508	+2.2355	+ 9	+40 49 40.20	+13.774	— 17
787	[α Octantis]	5.5	20 54 5.438	+7.3916	— 20	—77 21 37.00	+13.450	— 355
789	[11 Aquarii]	6.4	20 55 55.854	+3.1602	+ 23	— 5 4 14.79	+13.788	— 133
790	ζ Microscopii	5.4	20 57 20.758	+3.8423	— 36	—38 58 32.66	+13.888	— 122
792	[ξ Cygni]	3.9	21 1 43.773	+2.1814	+ 12	+43 34 34.57	+14.278	— 3
791	[A Capricorni]	4.6	21 1 58.960	+3.5136	— 30	—25 21 29.65	+14.250	— 47
793	61 Cygni pr.	5.4	21 2 57.086	+2.6860	+3504	+38 18 58.20	+17.607	+3251
794	ν Aquarii	4.4	21 4 48.135	+3.2708	+ 62	—11 43 42.76	+14.459	— 9
795	Br. 2777	6.0	21 7 16.737	—1.1388	+ 74	+77 46 10.97	+14.653	+ 36
797	ζ Cygni	3.1	21 9 11.414	+2.5520	— 1	+29 51 55.68	+14.673	— 58
796	[Jndi 23 G.]	5.9	21 9 28.992	+4.2995	— 19	—53 37 41.15	+14.702	— 46
798	[Gr. 3415]	5.8	21 9 33.851	+1.5284	— 6	+59 37 27.69	+14.752	— 2
799	[τ Cygni]	3.8	21 11 16.650	+2.3935	+ 137	+37 40 9.55	+15.290	+ 435
800	α Equulei	3.9	21 11 25.522	+2.9997	+ 38	+ 4 53 0.46	+14.776	— 87
801	[4 Pisc. austr.]	4.8	21 12 36.292	+3.6449	+ 35	—32 32 26.94	+14.906	— 26
802	[ϑ¹ Microscop.]	4.9	21 15 8.200	+3.8500	+ 70	—41 10 54.99	+15.093	+ 14
803	α Cephei	2.5	21 16 28.797	+1.4340	+ 212	+62 12 44.79	+15.205	+ 49
804	1 Pegasi	4.2	21 18 0.982	+2.7738	+ 74	+19 25 38.85	+15.305	+ 61
805	γ Pavonis	4.2	21 19 10.803	+5.0022	+ 133	—65 45 54.35	+16.098	+ 788

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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806	ζ Capricorni	3.8	21 21 38.724	+3.4303	− 1	−22 47 35.01	+15.471	+ 23
807	[g Cygni]	5.4	21 26 12.065	+2.2123	+ 48	+46 9 7.63	+15.802	+ 103
808	β Aquarii	2.9	21 26 55.639	+3.1601	+ 11	− 5 57 31.68	+15.734	− 5
809	β Cephei	3.1	21 27 31.773	+0.7864	+ 20	+70 10 27.35	+15.778	+ 7
810	ν Octantis	3.7	21 31 43.666	+6.8054	+ 130	−77 46 53.69	+15.739	− 256
811	74 Cygni	5.1	21 33 25.231	+2.4025	− 3	+40 1 4.00	+16.095	+ 12
812	[γ Capricorni]	3.6	21 35 13.044	+3.3278	+ 131	−17 3 36.87	+16.161	− 16
813	[13 H. Cephei]	6.1	21 36 13.796	+1.8612	+ 7	+57 5 26.80	+16.231	+ 2
814	[ι Pisc.austr.]	4.4	21 39 42.478	+3.5812	+ 18	−33 25 39.87	+16.317	− 89
815	ε Pegasi	2.3	21 39 51.831	+2.9464	+ 18	+ 9 28 15.78	+16.413	0
816	[κ Pegasi]	4.1	21 40 39.558	+2.7151	+ 25	+25 14 24.36	+16.463	+ 10
817	[11 Cephei]	4.8	21 40 38.196	+0.8903	+ 233	+70 54 21.86	+16.550	+ 97
818	[λ Capricorni]	5.5	21 41 47.988	+3.2325	+ 20	−11 46 19.96	+16.507	− 4
819	δ Capricorni	2.8	21 42 11.130	+3.3147	+ 178	−16 31 37.52	+16.236	− 294
820	[ο Jndi]	5.6	21 43 21.476	+5.1300	− 87	−70 2 22.37	+16.567	− 21
821	π² Cygni	4.3	21 43 32.456	+2.2142	+ 8	+48 54 7.03	+16.593	− 4
822	γ Gruis	3.0	21 48 36.215	+3.6421	+ 77	−37 46 45.19	+16.822	− 18
823	16 Pegasi	5.2	21 49 3.431	+2.7281	+ 4	+25 30 38.46	+16.863	+ 1
824	[δ Jndi]	4.6	21 51 56.137	+4.1044	+ 43	−55 24 41.73	+16.968	− 29
825	[ε Jndi]	4.9	21 56 38.209	+4.6147	+4812	−57 8 53.16	+14.626	−2585
826	[20 Pegasi]	5.8	21 56 48.096	+2.9219	+ 36	+12 41 52.55	+17.164	− 54
827	α Aquarii	2.9	22 1 15.880	+3.0821	+ 10	− 0 44 51.98	+17.408	− 7
828	ι Aquarii	4.2	22 1 41.170	+3.2430	+ 24	−14 17 49.16	+17.383	− 51
830	20 Cephei	5.7	22 2 19.976	+1.8215	+ 22	+62 21 21.76	+17.522	+ 60
829	α Gruis	1.8	22 2 41.528	+3.7960	+ 119	−47 23 15.79	+17.305	− 171
831	[ι Pegasi]	3.9	22 2 54.794	+2.7909	+ 219	+24 54 53.57	+17.508	+ 22
832	[μ Pisc.austr.]	4.6	22 3 15.085	+3.5067	+ 41	−33 25 6.05	+17.460	− 41
833	[27 Pegasi]	5.8	22 5 19.608	+2.6561	− 42	+32 44 31.43	+17.524	− 65
834	ϑ Pegasi	3.6	22 5 45.656	+3.0265	+ 184	+ 5 45 52.23	+17.637	+ 31
835	π Pegasi	4.3	22 6 4.657	+2.6618	− 9	+32 44 45.73	+17.602	− 19
836	ζ Cephei	3.4	22 7 47.951	+2.0773	+ 14	+57 46 1.77	+17.697	+ 6
837	24 Cephei	4.8	22 8 7.105	+1.1594	+ 54	+71 54 27.21	+17.712	+ 8
838	[λ Pisc.austr.]	5.4	22 9 19.665	+3.4070	+ 16	−28 12 12.57	+17.753	− 1
839	[ε Octantis]	5.3	22 10 12.774	+6.9226	+ 138	−80 52 42.13	+17.749	− 40
840	ϑ Aquarii	4.2	22 12 11.475	+3.1677	+ 76	− 8 13 18.62	+17.850	− 19

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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841	α Tucanae	2.8	22 12 28.934	+4.1393	− 98	−60 41 55.22	+17.831	− 49
842	γ Aquarii	3.7	22 17 6.693	+3.0994	+ 83	− 1 49 52.23	+18.066	+ 7
843	[31 Pegasi]	4.9	22 17 11.148	+2.9518	− 1	+11 45 41.22	+18.071	+ 9
844	3 Lacertae	4.5	22 20 5.821	+2.3543	− 15	+51 47 16.13	+17.981	−191
845	[ν Gruis]	5.6	22 23 29.936	+3.5265	+ 24	−39 34 38.57	+18.133	−162
846	[δ¹ Gruis]	4.0)	22 24 0.840	+3.5981	+ 17	−43 56 43.89	+18.305	− 8
847	[δ Cephei]	(4.1	22 25 54.056	+2.2218	+ 17	+57 57 52.14	+18.382	+ 2
848	7 Lacertae	3.8	22 27 39.810	+2.4666	+ 147	+49 49 47.14	+18.457	+ 16
849	[υ Aquarii]	5.5	22 29 52.949	+3.2863	+ 155	−21 9 33.55	+18.372	−144
850	η Aquarii	3.9	22 30 50.093	+3.0835	+ 59	− 0 34 17.12	+18.492	− 55
851	[31 Cephei]	5.2	22 33 35.690	+1.4826	+ 381	+73 11 10.24	+18.661	+ 23
852	10 Lacertae	4.9	22 35 18.628	+2.6878	+ 4	+38 35 31.04	+18.687	− 6
853	[30 Cephei]	5.3	22 35 31.600	+2.1225	+ 1	+63 7 36.43	+18.678	− 22
854	[ε Pisc.austr.]	4.0	22 35 47.436	+3.3237	+ 12	−27 30 10.21	+18.710	+ 2
855	ζ Pegasi	3.3	22 37 4.359	+2.9913	+ 53	+10 22 17.97	+18.735	− 13
856	β Gruis	2.0	22 37 24.989	+3.5957	+ 117	−47 20 42.77	+18.733	− 25
857	η Pegasi	2.9	22 38 52.515	+2.8089	+ 12	+29 45 38.33	+18.770	− 33
858	[13 Lacertae]	5.4	22 40 9.848	+2.6704	− 6	+41 21 25.70	+18.847	+ 5
859	λ Pegasi	3.9	22 42 17.455	+2.8870	+ 41	+23 6 8.13	+18.895	− 10
860	ε Gruis	3.5	22 43 14.631	+3.6400	+ 97	−51 46 47.73	+18.859	− 73
861	[τ Aquarii]	4.0	22 44 56.042	+3.1790	− 12	−14 3 26.37	+18.947	− 33
862	[μ Pegasi]	3.6	22 45 45.264	+2.8929	+ 109	+24 8 11.93	+18.963	− 41
863	ι Cephei	3.5	22 46 32.639	+2.1270	− 114	+65 44 14.53	+18.902	−123
864	λ Aquarii	3.8	22 48 1.465	+3.1314	+ 5	− 8 2 53.27	+19.104	+ 38
865	ρ Indi	6.3	22 48 33.033	+4.2228	− 102	−70 32 38.56	+19.142	+ 62
866	δ Aquarii	3.2	22 49 58.883	+3.1867	− 33	−16 17 20.58	+19.098	− 19
867	α Pisc. austr.	1.2	22 52 47.411	+3.3211	+ 247	−30 5 19.76	+19.031	−159
868	[ζ Gruis]	4.0	22 55 41.397	+3.5597	− 80	−53 13 34.63	+19.246	− 16
869	ο Androm.	3.5	22 57 52.162	+2.7545	+ 25	+41 51 9.91	+19.301	− 13
870	β Pegasi	2.4	22 59 30.375	+2.9048	+ 145	+27 36 18.76	+19.489	+137
871	α Pegasi	2.4	23 0 22.572	+2.9863	+ 41	+14 43 53.53	+19.330	− 41
872	ϑ Gruis	4.2	23 1 55.512	+3.3909	− 52	−43 59 45.46	+19.368	− 38
873	c² Aquarii	3.7	23 4 45.372	+3.2024	+ 32	−21 39 0.95	+19.502	+ 36
874	π Cephei	4.5	23 5 5.723	+1.8993	+ 28	+74 54 41.92	+19.448	− 25
875	Br. 3077	5.8	23 9 2.430	+2.8768	+2525	+56 40 56.26	+19.848	+295

Nr.	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0s.0001	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbew. in Einh. von 0".001
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876	[Tucanae 25 G.]	5.9	23 11 40.632	+3.6325	+232	−62 28 52.29	+19.549	− 53
877	γ Tucanae	3.9	23 12 17.949	+3.5211	− 59	−58 43 5.99	+19.695	+ 82
878	[γ Piscium]	3.7	23 12 36.185	+3.1094	+503	+ 2 48 4.44	+19.636	+ 18
879	γ Sculptoris	4.4	23 14 4.482	+3.2464	+ 10	−33 0 41.77	+19.577	− 68
880	τ Pegasi	4.5	23 16 16.769	+2.9658	+ 21	+23 15 30.39	+19.669	− 13
882	4 Cassiopejae	5.5	23 20 55.388	+2.6514	+ 17	+61 47 58.27	+19.745	− 10
881	[υ Pegasi]	4.4	23 20 59.120	+2.9906	+138	+22 55 10.07	+19.791	+ 35
883	[ο Gruis]	5.7	23 21 41.278	+3.3696	− 4	−53 12 32.00	+19.885	+119
884	κ Piscium	5.1	23 22 25.275	+3.0752	+ 56	+ 0 46 25.31	+19.684	− 93
885	70 Pegasi	4.7	23 24 42.178	+3.0318	+ 38	+12 16 29.56	+19.836	+ 28
886	[β Sculptoris]	4.4	23 28 15.302	+3.2248	+ 65	−38 18 18.35	+19.868	+ 14
887	[72 Pegasi]	5.2	23 29 35.081	+2.9710	+ 40	+30 50 22.22	+19.857	− 12
888	[Aquarii 248 G.]	6.7	23 30 59.733	+3.0956	− 5	− 7 57 5.63	+19.909	+ 23
889	[Phoenicis 11 G.]	4.6	23 33 6.932	+3.2391	+ 47	−45 58 46.56	+19.871	− 37
890	[λ Androm.]	3.8	23 33 15.158	+2.9271	+156	+45 58 52.45	+19.486	−423
891	ι Androm.	4.1	23 33 48.985	+2.9342	+ 27	+42 46 50.65	+19.910	− 5
892	ι Piscium	4.1	23 35 25.398	+3.0844	+247	+ 5 8 56.99	+19.491	−440
893	γ Cephei	3.3	23 35 43.598	+2.4355	−182	+77 8 28.24	+20.091	+157
894	ω² Aquarii	4.5	23 38 9.592	+3.1132	+ 65	−15 1 53.62	+19.892	− 63
895	41 H. Cephei	5.2	23 43 41.689	+2.8475	+ 23	+67 19 4.16	+19.996	+ 1
896	Lac. δ Sculpt.	4.4	23 44 20.634	+3.1294	+ 71	−28 37 1.25	+19.894	−105
897	[Aquarii 268 G.]	6.3	23 45 42.282	+3.0965	+ 86	−10 27 55.41	+20.093	+ 86
898	φ Pegasi	5.4	23 48 0.545	+3.0482	− 8	+18 37 53.35	+19.979	− 39
899	[ρ Cassiopejae]	4.8	23 49 58.835	+2.9819	− 7	+57 0 35.19	+20.031	+ 4
900	[27 Piscium]	5.1	23 54 10.067	+3.0713	− 37	− 4 2 39.22	+19.971	− 68
901	[π Phoenicis]	5.2	23 54 22.322	+3.1194	+ 30	−53 14 15.22	+20.085	+ 46
902	ω Piscium	3.9	23 54 47.486	+3.0791	+100	+ 6 22 33.94	+19.931	−109
903	ε Tucanae	4.5	23 55 20.984	+3.1401	+ 64	−66 4 0.24	+20.009	− 33
904	[ϑ Octantis]	5.0	23 57 5.089	+3.1275	−221	−77 33 5.58	+19.874	−171
905	[2 Ceti]	4.5	23 59 13.954	+3.0751	+ 12	−17 49 33.09	+20.042	− 4

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbewegung 0ˢ.	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbewegung 0″.

Nördliche Polsterne.

	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbewegung 0ˢ.	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbewegung 0″.
Na	43 H. Cephei	4.3	0ʰ 56ᵐ 31ˢ.285	+ 7ˢ.5738	+0739	+85° 47′ 8″.00	+19″.438	—001
Nb	α Ursae min.	2.0	1 27 51.080	+27.8185	+1405	+88 50 10.67	+18.593	+002
Nc	Gr. 750	6.8	4 8 34.746	+17.5309	+0158	+85 19 23.03	+ 9.399	+033
Nd	51 H. Cephei	5.2	6 59 38.173	+29.3248	—0502	+87 11 20.94	— 5.194	—036
Ne	1 H. Dracon.	4.3	9 24 37.668	+ 8.8235	—0062	+81 42 59.80	—15.634	—020
Nf	[30 H. Camel.]	5.2	10 20 26.777	+ 7.6110	—0469	+83 0 25.56	—18.154	+031
Ng	ε Ursae min.	4.2	16 54 56.821	— 6.2656	+0075	+82 11 1.14	— 5.608	+006
Nh	δ Ursae min.	4.3	18 0 38.811	—19.4988	+0173	+86 36 51.19	+ 0.113	+057
Ni	λ Ursae min.	6.8	19 8 37.324	—70.8719	—0931	+89 0 33.93	+ 5.922	+009
Nk	76 Draconis	6.0	20 49 1.338	— 4.1378	+0164	+82 12 22.48	+13.506	+027

Südliche Polsterne.

	Name	Gr.	AR. 1912.0	Jährl. Veränderung	Jährl. Eigenbewegung 0ˢ.	Dekl. 1912.0	Jährl. Veränderung	Jährl. Eigenbewegung 0″.
Sa	Octantis 4 G.	6	1ʰ 42ᵐ 21ˢ.56	— 3ˢ.804	+019	—85° 12′ 51″.86	+18″.114	+035
Sb	[ξ Mensae]	6.0	5 8 51.10	— 6.952	—004	—82 35 22.02	+ 4.451	+014
Sc	ζ Octantis	6—5	9 9 39.35	— 8.049	—093	—85 18 43.82	—14.712	+047
Sd	ι Octantis	6—5	12 45 37.57	+ 5.934	+041	—84 38 44.34	—19.625	+025
Se	Octantis 20 G.	7	14 44 1.01	+25.643	—181	—87 47 34.58	—15.194	—066
Sf	Octantis 26 G.	6—7	16 27 52.29	+21.620	+005	—86 12 19.21	— 7.845	—002
Sg	χ Octantis	6	18 3 13.49	+35.745	—095	—87 39 53.27	+ 0.155	—127
Sh	σ Octantis	6	19 19 42.70	+97.224	+115	—89 14 4.37	+ 6.831	—002
Si	β Octantis	4.1	22 37 7.58	+ 6.345	—026	—81 50 36.18	+18.752	+003
Sk	τ Octantis	6	23 15 17.66	+10.387	+022	—87 57 56.80	+19.680	+015

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$. AR.	Diff.	Dekl.	Diff.	α Ursae minoris. $2^m.0$. AR.	Diff.	Dekl.	Diff.	Gr. 750. $6^m.8$. AR.	Diff.	Dekl.	Diff.
	$0^h\ 56^m$		$+85°\ 47'$		$1^h\ 26^m$		$+88°\ 50'$		$4^h\ 8^m$		$+85°\ 19'$	
Jan. 1	25.15	25	27.17	11	98.77	89	30.67	16	42.62	7	40.51	29
2	24.90	27	27.28	12	97.88	95	30.83	17	42.55	8	40.80	31
3	24.63	28	27.40	11	96.93	101	31.00	16	42.47	10	41.11	32
4	24.35	31	27.51	11	95.92	106	31.16	15	42.37	11	41.43	32
5	24.04	31	27.62	9	94.86	112	31.31	14	42.26	13	41.75	32
6	23.73	32	27.71	6	93.74	116	31.45	12	42.13	15	42.07	30
7	23.41	33	27.77	3	92.58	118	31.57	10	41.98	16	42.37	29
8	23.08	31	27.80	2	91.40	115	31.67	7	41.82	17	42.66	27
9	22.77	30	27.82	0	90.25	110	31.74	5	41.65	17	42.93	25
10	22.47	29	27.82	1	89.15	105	31.79	4	41.48	16	43.18	23
11	22.18	27	27.81	1	88.10	100	31.83	4	41.32	16	43.41	21
12	21.91	26	27.80	1	87.10	96	31.87	3	41.16	15	43.62	21
13	21.65	25	27.79	1	86.14	94	31.90	5	41.01	14	43.83	22
14	21.40	26	27.78	1	85.20	95	31.95	5	40.87	15	44.05	22
15	21.14	27	27.79	1	84.25	97	32.00	6	40.72	14	44.27	23
16	20.87	27	27.80	2	83.28	103	32.06	7	40.58	15	44.50	25
17	20.60	30	27.82	1	82.25	109	32.13	6	40.43	17	44.75	25
18	20.30	31	27.83	1	81.16	115	32.19	5	40.26	18	45.00	25
19	19.99	33	27.82	2	80.01	119	32.24	3	40.08	19	45.25	25
20	19.66	32	27.80	4	78.82	120	32.27	1	39.89	22	45.50	24
21	19.34	32	27.76	7	77.62	119	32.28	1	39.67	22	45.74	22
22	19.02	30	27.69	8	76.43	116	32.27	3	39.45	22	45.96	20
23	18.72	28	27.61	10	75.27	111	32.24	4	39.23	23	46.16	18
24	18.44	27	27.51	10	74.16	105	32.20	5	39.00	21	46.34	15
25	18.17	26	27.41	10	73.11	99	32.15	5	38.79	20	46.49	15
26	17.91	25	27.31	9	72.12	94	32.10	5	38.59	20	46.64	14
27	17.66	24	27.22	8	71.18	92	32.05	4	38.39	18	46.78	15
28	17.42	24	27.14	7	70.26	93	32.01	2	38.21	18	46.93	16
29	17.18	25	27.07	6	69.33	96	31.99	2	38.03	19	47.09	17
30	16.93	26	27.01	6	68.37	101	31.97	1	37.84	19	47.26	18
31	16.67	28	26.95	7	67.36	106	31.96	2	37.65	20	47.44	19
Febr. 1	16.39	30	26.88	8	66.30	111	31.94	3	37.45	22	47.63	19
2	16.09	30	26.80	11	65.19	114	31.91	6	37.23	24	47.82	18
3	15.79	29	26.69	12	64.05	114	31.85	7	36.99	25	48.00	16
4	15.50	29	26.57	15	62.91	113	31.78	10	36.74	26	48.16	14
5	15.21	28	26.42	17	61.78	108	31.68	12	36.48	26	48.30	11
6	14.93	26	26.25	18	60.70	102	31.56	14	36.22	25	48.41	9
7	14.67		26.07		59.68		31.42		35.97		48.50	
O. K.	$+\ 0^s.29 \cos\varphi$				$+\ 1^s.05 \cos\varphi$				$+\ 0^s.26 \cos\varphi$			
U. K.	$-\ 0\ .29 \cos\varphi$				$-\ 1\ .05 \cos\varphi$				$-\ 0\ .26 \cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$. AR.		Dekl.		α Ursae minoris. $2^m.0$. AR.		Dekl.		Gr. 750. $6^m.8$. AR.		Dekl.	
	$0^h\ 56^m$		+85° 47′		$1^h\ 26^m$		+88° 50′		$4^h\ 8^m$		+85° 19′	
Febr. 7	14.67	24	26.07	18	59.68	97	31.42	13	35.97	24	48.50	8
8	14.43	22	25.89	18	58.71	90	31.29	14	35.73	23	48.58	7
9	14.21	21	25.71	17	57.81	86	31.15	14	35.50	23	48.65	6
10	14.00	20	25.54	17	56.95	85	31.01	12	35.27	22	48.71	6
11	13.80	22	25.37	15	56.10	85	30.89	12	35.05	22	48.77	8
12	13.58	22	25.22	15	55.25	89	30.77	11	34.83	22	48.85	9
13	13.36	23	25.07	15	54.36	94	30.66	11	34.61	23	48.94	9
14	13.13	25	24.92	15	53.42	98	30.55	11	34.38	24	49.03	10
15	12.88	26	24.77	18	52.44	102	30.44	14	34.14	26	49.13	10
16	12.62	26	24.59	19	51.42	103	30.30	15	33.88	27	49.23	8
17	12.36	25	24.40	22	50.39	103	30.15	17	33.61	28	49.31	7
18	12.11	25	24.18	24	49.36	100	29.98	19	33.33	28	49.38	4
19	11.86	22	23.94	24	48.36	94	29.79	21	33.05	28	49.42	2
20	11.64	21	23.70	26	47.42	86	29.58	22	32.77	27	49.44	0
21	11.43	18	23.44	25	46.56	80	29.36	22	32.50	26	49.44	2
22	11.25	17	23.19	24	45.76	73	29.14	21	32.24	24	49.42	2
23	11.08	15	22.95	23	45.03	69	28.93	20	32.00	23	49.40	2
24	10.93	16	22.72	22	44.34	68	28.73	19	31.77	22	49.38	1
25	10.77	16	22.50	21	43.66	69	28.54	17	31.55	22	49.37	0
26	10.61	17	22.29	19	42.97	72	28.37	18	31.33	22	49.37	1
27	10.44	19	22.10	21	42.25	76	28.19	17	31.11	23	49.38	2
28	10.25	19	21.89	22	41.49	80	28.02	19	30.88	24	49.40	2
29	10.06	20	21.67	22	40.69	83	27.83	19	30.64	26	49.42	2
März 1	9.86	19	21.45	24	39.86	84	27.64	20	30.38	26	49.44	0
2	9.67	19	21.21	27	39.02	82	27.44	24	30.12	28	49.44	3
3	9.48	18	20.94	29	38.20	78	27.20	26	29.84	28	49.41	5
4	9.30	16	20.65	30	37.42	71	26.94	27	29.56	27	49.36	7
5	9.14	14	20.35	31	36.71	64	26.67	28	29.29	26	49.29	9
6	9.00	12	20.04	31	36.07	57	26.39	28	29.03	25	49.20	10
7	8.88	10	19.73	29	35.50	51	26.11	27	28.78	24	49.10	10
8	8.78	9	19.44	28	34.99	47	25.84	26	28.54	22	49.00	10
9	8.69	9	19.16	27	34.52	48	25.58	25	28.32	21	48.90	10
10	8.60	10	18.89	25	34.04	49	25.33	24	28.11	21	48.80	9
11	8.50	11	18.64	25	33.55	52	25.09	23	27.90	22	48.71	7
12	8.39	12	18.39	26	33.03	56	24.86	24	27.68	23	48.64	7
13	8.27	13	18.13	27	32.47	59	24.62	25	27.45	24	48.57	6
14	8.14	13	17.86	28	31.88	61	24.37	25	27.21	25	48.51	8
15	8.01		17.58		31.27		24.12		26.96		48.43	
O. K.	$+ 0^s.29 \cos\varphi$				$+ 1^s.05 \cos\varphi$				$+ 0^s.26 \cos\varphi$			
U. K.	$- 0.29 \cos\varphi$				$- 1.05 \cos\varphi$				$- 0.26 \cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$. AR.	Δ	Dekl.	Δ	α Ursae minoris. $2^m.0$. AR.	Δ	Dekl.	Δ	Gr. 750. $6^m.8$. AR.	Δ	Dekl.	Δ
	$0^h\,56^m$		$+85°\,47'$		$1^h\,26^m$		$+88°\,50'$		$4^h\,8^m$		$+85°\,19'$	
März 15	8.01		17.58		31.27		24.12		26.96		48.43	
16	7.88	13	17.28	30	30.66	61	23.84	28	26.70	26	48.34	9
17	7.76	12	16.96	32	30.08	58	23.54	30	26.44	26	48.23	11
18	7.66	10	16.63	33	29.55	53	23.23	31	26.18	26	48.09	14
19	7.58	8	16.30	33	29.10	45	22.91	32	25.94	24	47.93	16
20	7.52	6	15.97	33	28.73	37	22.59	32	25.70	24	47.76	17
21	7.48	4	15.65	32	28.44	29	22.27	32	25.48	22	47.58	18
22	7.46	2	15.34	31	28.20	24	21.97	30	25.28	20	47.39	19
23	7.45	1	15.04	30	27.99	21	21.67	30	25.10	18	47.22	17
24	7.43	2	14.77	27	27.79	20	21.40	27	24.93	17	47.06	16
25	7.40	3	14.50	27	27.57	22	21.15	25	24.75	18	46.91	15
26	7.37	3	14.24	26	27.32	25	20.89	26	24.56	19	46.77	14
27	7.32	5	13.97	27	27.03	29	20.63	26	24.38	18	46.64	13
28	7.27	5	13.70	27	26.70	33	20.36	27	24.18	20	46.50	14
29	7.22	5	13.40	30	26.36	34	20.08	28	23.97	21	46.35	15
30	7.18	4	13.09	31	26.04	32	19.79	29	23.76	21	46.20	15
31	7.15	3	12.77	32	25.76	28	19.47	32	23.54	22	46.02	18
April 1	7.13	2	12.43	34	25.54	22	19.13	34	23.33	21	45.81	21
2	7.13	0	12.09	34	25.39	15	18.80	33	23.13	20	45.58	23
3	7.16	3	11.75	34	25.32	7	18.46	34	22.94	19	45.34	24
4	7.20	4	11.43	32	25.31	1	18.13	33	22.78	16	45.09	25
(4)	7.25	5	11.12	31								
5	7.31	6	10.83	29	25.35	4	17.81	32	22.63	15	44.85	24
6	7.37	6	10.55	28	25.42	7	17.50	31	22.48	15	44.61	24
7	7.42	5	10.28	27	25.48	6	17.22	28	22.35	13	44.38	23
8	7.46	4	10.01	27	25.52	4	16.94	28	22.21	14	44.17	21
9	7.48	2	9.73	28	25.52	0	16.67	27	22.06	15	43.96	21
10	7.50	2	9.45	28	25.48	4	16.38	29	21.91	15	43.77	19
11	7.52	2	9.16	29	25.41	7	16.10	28	21.75	16	43.57	20
12	7.55	3	8.85	31	25.34	7	15.81	29	21.59	16	43.36	21
13	7.60	5	8.53	32	25.29	5	15.49	32	21.42	17	43.13	23
(13)					25.30	1	15.16	33				
14	7.66	6	8.20	33	25.37	7	14.82	34	21.25	17	42.88	25
15	7.75	9	7.87	33	25.52	15	14.49	33	21.09	16	42.61	27
16	7.86	11	7.55	32	25.75	23	14.15	34	20.94	15	42.33	28
17	7.99	13	7.26	29	26.04	29	13.83	32	20.82	12	42.04	29
18	8.12	13	6.98	28	26.37	33	13.53	30	20.71	11	41.75	29
19	8.26	14	6.72	26	26.73	36	13.25	28	20.62	9	41.46	29
O. K.	$+0^s.29 \cos\varphi$				$+1^s.05 \cos\varphi$				$+0^s.26 \cos\varphi$			
U. K.	$-0.29 \cos\varphi$				$-1.05 \cos\varphi$				$-0.26 \cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.8$.			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
	$0^h\ 56^m$		$+85°\ 46'$		$1^h\ 26^m$		$+88°\ 50'$		$4^h\ 8^m$		$+85°\ 19'$	
April 19	$8^s.26$	13	$66''.72$	25	$26^s.73$	34	$13''.25$	26	$20^s.62$	8	$41''.46$	27
20	8.39	12	66.47	23	27.07	31	12.99	25	20.54	7	41.19	26
21	8.51	11	66.24	23	27.38	27	12.74	25	20.47	7	40.93	25
22	8.62	10	66.01	23	27.65	24	12.49	25	20.40	7	40.68	23
23	8.72	10	65.78	25	27.89	21	12.24	26	20.33	8	40.45	23
24	8.82	9	65.53	26	28.10	22	11.98	27	20.25	10	40.22	23
25	8.91	11	65.27	27	28.32	25	11.71	29	20.15	10	39.99	25
26	9.02	12	65.00	29	28.57	30	11.42	31	20.05	11	39.74	26
27	9.14	14	64.71	28	28.87	36	11.11	31	19.94	9	39.48	28
28	9.28	16	64.43	28	29.23	43	10.80	31	19.85	8	39.20	30
29	9.44	18	64.15	28	29.66	51	10.49	31	19.77	8	38.90	31
30	9.62	20	63.87	26	30.17	56	10.18	29	19.69	5	38.59	32
Mai 1	9.82	20	63.61	24	30.73	59	9.89	26	19.64	4	38.27	33
2	10.02	20	63.37	22	31.32	59	9.63	25	19.60	3	37.94	31
3	10.22	20	63.15	20	31.91	58	9.38	23	19.57	1	37.63	30
4	10.42	18	62.95	20	32.49	53	9.15	23	19.56	2	37.33	28
5	10.60	16	62.75	21	33.02	49	8.92	23	19.54	1	37.05	27
6	10.76	16	62.54	20	33.51	46	8.69	23	19.53	2	36.78	26
7	10.92	16	62.34	21	33.97	44	8.46	24	19.51	3	36.52	25
8	11.08	16	62.13	22	34.41	45	8.22	25	19.48	4	36.27	26
9	11.24	17	61.91	24	34.86	48	7.97	26	19.44	4	36.01	27
10	11.41	19	61.67	23	35.34	54	7.71	27	19.40	4	35.74	28
11	11.60	21	61.44	24	35.88	62	7.44	27	19.36	3	35.46	31
12	11.81	22	61.20	23	36.50	69	7.17	26	19.33	2	35.15	31
13	12.03	25	60.97	21	37.19	75	6.91	26	19.31	0	34.84	33
14	12.28	26	60.76	19	37.94	80	6.65	23	19.31	2	34.51	33
15	12.54	25	60.57	17	38.74	82	6.42	21	19.33	4	34.18	33
16	12.79	26	60.40	16	39.56	82	6.21	19	19.37	5	33.85	31
17	13.05	24	60.24	13	40.38	79	6.02	18	19.42	6	33.54	30
18	13.29	23	60.11	12	41.17	75	5.84	15	19.48	6	33.24	28
19	13.52	23	59.99	13	41.92	71	5.69	16	19.54	7	32.96	26
20	13.75	21	59.86	13	42.63	67	5.53	17	19.61	5	32.70	25
21	13.96	20	59.73	14	43.30	65	5.36	18	19.66	4	32.45	24
22	14.16	22	59.59	15	43.95	67	5.18	19	19.70	4	32.21	26
23	14.38	23	59.44	16	44.62	70	4.99	21	19.74	3	31.95	26
24	14.61	24	59.28	18	45.32	76	4.78	21	19.77	4	31.69	29
25	14.85		59.10		46.08		4.57		19.81	4	31.40	29
									19.85		31.11	
O. K.	$+ 0^s.29 \cos\varphi$				$+ 1^s.05 \cos\varphi$				$+ 0^s.26 \cos\varphi$			
U. K.	$- 0\ .29 \cos\varphi$				$- 1\ .05 \cos\varphi$				$- 0\ .26 \cos\varphi$			

Obere Kulmination.

1912		43 Hev. Cephei. 4ᵐ.3.				α Ursae minoris. 2ᵐ.0.				Gr. 750. 6ᵐ.8.			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
		$0^h 56^m$		+85° 46′		$1^h 26^m$		+88° 50′		$4^h 8^m$		+85° 19′	
Mai	25	14.85	26	59.10	16	46.08	84	4.57	20	19.85	6	31.11	32
	26	15.11	28	58.94	16	46.92	90	4.37	20	19.91	7	30.79	32
	27	15.39	29	58.78	14	47.82	95	4.17	20	19.98	9	30.47	32
	28	15.68	29	58.64	13	48.77	97	3.97	17	20.07	10	30.15	31
	29	15.97	30	58.51	10	49.74	99	3.80	14	20.17	12	29.84	29
	30	16.27	29	58.41	8	50.73	97	3.66	13	20.29	12	29.55	29
	31	16.56	28	58.33	7	51.70	94	3.53	12	20.41	13	29.26	26
Juni	1	16.84	26	58.26	7	52.64	89	3.41	11	20.54	12	29.00	24
	2	17.10	25	58.19	7	53.53	83	3.30	11	20.66	10	28.76	24
	3	17.35	24	58.12	8	54.36	80	3.19	11	20.76	10	28.52	23
	4	17.59	25	58.04	8	55.16	80	3.08	13	20.86	9	28.29	24
	5	17.84	24	57.96	10	55.96	81	2.95	14	20.95	9	28.05	25
	6	18.08	26	57.86	11	56.77	86	2.81	15	21.04	10	27.80	28
	7	18.34	29	57.75	10	57.63	92	2.66	14	21.14	10	27.52	28
	8	18.63	30	57.65	9	58.55	98	2.52	14	21.24	13	27.24	29
	9	18.93	31	57.56	8	59.53	105	2.38	13	21.37	14	26.95	29
	10	19.24	32	57.48	6	60.58	110	2.25	12	21.51	16	26.66	30
	11	19.56	33	57.42	4	61.68	113	2.13	9	21.67	18	26.36	28
	12	19.89	32	57.38	2	62.81	112	2.04	6	21.85	18	26.08	26
	13	20.21	32	57.36	−1	63.93	109	1.98	5	22.03	19	25.82	24
	14	20.53	30	57.37	2	65.02	104	1.93	3	22.22	19	25.58	21
	15	20.83	29	57.39	2	66.06	100	1.90	3	22.41	17	25.37	20
	16	21.12	27	57.41	2	67.06	96	1.87	3	22.58	17	25.17	20
	17	21.39	26	57.43	1	68.02	92	1.84	3	22.75	16	24.97	19
	18	21.65	26	57.44	0	68.94	90	1.81	5	22.91	16	24.78	21
	19	21.91	28	57.44	1	69.84	93	1.76	6	23.07	16	24.57	22
	20	22.19	28	57.43	2	70.77	98	1.70	6	23.23	16	24.35	23
	21	22.47	30	57.41	2	71.75	104	1.64	8	23.39	17	24.12	25
	22	22.77	32	57.39	1	72.79	109	1.56	6	23.56	18	23.87	25
	23	23.09	33	57.38	0	73.88	114	1.50	5	23.74	21	23.62	25
	24	23.42	34	57.38	2	75.02	118	1.45	4	23.95	21	23.37	25
	25	23.76	33	57.40	4	76.20	120	1.41	2	24.16	23	23.12	23
	26	24.09	33	57.44	6	77.40	118	1.39	−1	24.39	23	22.89	22
	27	24.42	32	57.50	8	78.58	114	1.40	2	24.62	24	22.67	19
	28	24.74	31	57.58	8	79.72	108	1.42	3	24.86	23	22.48	17
	29	25.05	28	57.66	8	80.80	103	1.45	4	25.09	22	22.31	16
	30	25.33	28	57.74	9	81.83	98	1.49	4	25.31	21	22.15	15
Juli	1	25.61		57.83		82.81		1.53		25.52		22.00	
O. K.		+ 0ˢ.29 cos φ				+ 1ˢ.05 cos φ				+ 0ˢ.26 cos φ			
U. K.		— 0 .29 cos φ				— 1 .05 cos φ				— 0 .26 cos φ			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.8$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$0^h\ 56^m$		$+85°\ 46'$		$1^h\ 27^m$		$+88°\ 50'$		$4^h\ 8^m$		$+85°\ 19'$	
Juli 1	$25^s.61$	26	$57''.83$	7	$22^s.81$	95	$1''.53$	2	$25^s.52$	21	$22''.00$	16
2	25.87	27	57.90	6	23.76	94	1.55	2	25.73	19	21.84	16
3	26.14	28	57.96	5	24.70	98	1.57	1	25.92	20	21.68	18
4	26.42	29	58.01	5	25.68	103	1.58	0	26.12	20	21.50	20
5	26.71	30	58.06	5	26.71	108	1.58	0	26.32	22	21.30	20
6	27.01	32	58.11	7	27.79	114	1.58	1	26.54	23	21.10	21
7	27.33	33	58.18	8	28.93	119	1.59	3	26.77	26	20.89	20
8	27.66	34	58.26	11	30.12	122	1.62	5	27.03	26	20.69	19
9	28.00	33	58.37	12	31.34	122	1.67	7	27.29	28	20.50	16
10	28.33	32	58.49	15	32.56	120	1.74	10	27.57	29	20.34	15
11	28.65	32	58.64	17	33.76	115	1.84	11	27.86	29	20.19	13
12	28.97	29	58.81	17	34.91	109	1.95	12	28.15	27	20.06	11
13	29.26	27	58.98	17	36.00	103	2.07	12	28.42	26	19.95	10
14	29.53	27	59.15	16	37.03	99	2.19	12	28.68	26	19.85	9
15	29.80	26	59.31	15	38.02	96	2.31	10	28.94	25	19.76	10
16	30.06	26	59.46	14	38.98	96	2.41	10	29.19	24	19.66	11
17	30.32	27	59.60	14	39.94	100	2.51	9	29.43	24	19.55	12
18	30.59	29	59.74	13	40.94	104	2.60	8	29.67	25	19.43	14
19	30.88	30	59.87	13	41.98	109	2.68	8	29.92	26	19.29	14
20	31.18	31	60.00	14	43.07	115	2.76	9	30.18	27	19.15	15
21	31.49	31	60.14	16	44.22	118	2.85	11	30.45	30	19.00	13
22	31.80	33	60.30	18	45.40	119	2.96	12	30.75	30	18.87	13
23	32.13	31	60.48	19	46.59	118	3.08	15	31.05	30	18.74	11
24	32.44	30	60.67	21	47.77	114	3.23	16	31.35	31	18.63	9
25	32.74	28	60.88	22	48.91	109	3.39	17	31.66	31	18.54	6
26	33.02	27	61.10	23	50.00	102	3.56	18	31.97	30	18.48	5
27	33.29	25	61.33	24	51.02	96	3.74	19	32.27	28	18.43	5
28	33.54	24	61.57	22	51.98	93	3.93	17	32.55	28	18.38	3
29	33.78	23	61.79	20	52.91	90	4.10	17	32.83	26	18.35	5
30	34.01	24	61.99	19	53.81	91	4.27	15	33.09	25	18.30	5
31	34.25	25	62.18	19	54.72	95	4.42	15	33.34	27	18.25	7
Aug. 1	34.50	26	62.37	19	55.67	99	4.57	14	33.61	28	18.18	8
2	34.76	27	62.56	19	56.66	105	4.71	14	33.89	28	18.10	8
3	35.03	29	62.75	20	57.71	109	4.85	16	34.17	31	18.02	8
4	35.32	29	62.95	23	58.80	113	5.01	19	34.48	31	17.94	8
5	35.61	30	63.18	25	59.93	113	5.20	20	34.79	33	17.86	5
6	35.91	28	63.43	28	61.06	111	5.40	22	35.12	34	17.81	4
7	36.19		63.71		62.17		5.62		35.46		17.77	
O. K.	$+0^s.29 \cos\varphi$				$+1^s.05 \cos\varphi$				$+0^s.26 \cos\varphi$			
U. K.	$-0.29 \cos\varphi$				$-1.05 \cos\varphi$				$-0.26 \cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.8$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$0^h\ 56^m$		$+85°\ 47'$		$1^h\ 28^m$		$+88°\ 50'$		$4^h\ 8^m$		$+85°\ 19'$	
Aug. 7	^{s}36.19	27	$''$3.71	28	^{s}2.17	107	$''$5.62	24	^{s}35.46	34	$''$17.77	1
8	36.46	25	3.99	30	3.24	100	5.86	26	35.80	33	17.76	0
9	36.71	24	4.29	30	4.24	94	6.12	26	36.13	31	17.76	2
10	36.95	21	4.59	30	5.18	88	6.38	26	36.44	31	17.78	4
11	37.16	21	4.89	29	6.06	85	6.64	24	36.75	30	17.82	3
12	37.37	21	5.18	27	6.91	82	6.88	23	37.05	29	17.85	3
13	37.58	20	5.45	26	7.73	83	7.11	22	37.34	28	17.88	1
14	37.78	22	5.71	25	8.56	87	7.33	22	37.62	29	17.89	1
15	38.00	23	5.96	24	9.43	93	7.55	20	37.91	29	17.88	1
16	38.23	24	6.20	26	10.36	97	7.75	22	38.20	30	17.87	2
17	38.47	26	6.46	27	11.33	101	7.97	24	38.50	32	17.85	2
18	38.73	26	6.73	29	12.34	102	8.21	24	38.82	34	17.83	0
19	38.99	25	7.02	31	13.36	102	8.45	27	39.16	33	17.83	1
20	39.24	23	7.33	32	14.38	98	8.72	27	39.49	34	17.84	3
21	39.47	22	7.65	33	15.36	93	8.99	30	39.83	33	17.87	6
22	39.69	21	7.98	34	16.29	85	9.29	30	40.16	33	17.93	7
23	39.90	19	8.32	34	17.14	79	9.59	31	40.49	32	18.00	8
24	40.09	17	8.66	34	17.93	73	9.90	30	40.81	30	18.08	10
25	40.26	16	9.00	31	18.66	71	10.20	28	41.11	28	18.18	9
26	40.42	15	9.31	30	19.37	69	10.48	28	41.39	29	18.27	8
27	40.57	17	9.61	30	20.06	71	10.76	26	41.68	28	18.35	7
28	40.74	18	9.91	29	20.77	74	11.02	26	41.96	29	18.42	5
29	40.92	19	10.20	29	21.51	80	11.28	26	42.25	29	18.47	4
30	41.11	20	10.49	30	22.31	84	11.54	26	42.54	32	18.51	4
31	41.31	22	10.79	33	23.15	88	11.80	29	42.86	32	18.55	5
Sept. 1	41.53	21	11.12	34	24.03	88	12.09	30	43.18	33	18.60	7
2	41.74	20	11.46	35	24.91	87	12.39	33	43.51	34	18.67	8
3	41.94	19	11.81	38	25.78	84	12.72	35	43.85	34	18.75	11
4	42.13	17	12.19	39	26.62	78	13.07	36	44.19	34	18.86	13
5	42.30	15	12.58	39	27.40	69	13.43	36	44.53	33	18.99	15
6	42.45	13	12.97	38	28.09	63	13.79	35	44.86	31	19.14	15
7	42.58	12	13.35	37	28.72	58	14.14	36	45.17	31	19.29	16
8	42.70	12	13.72	36	29.30	56	14.50	34	45.48	29	19.45	16
9	42.82	11	14.08	34	29.86	55	14.84	32	45.77	27	19.61	14
10	42.93	12	14.42	34	30.41	57	15.16	32	46.04	28	19.75	13
11	43.05	14	14.76	33	30.98	61	15.48	31	46.32	28	19.88	12
12	43.19	15	15.09	33	31.59	65	15.79	30	46.60	30	20.00	11
13	43.34		15.42		32.24		16.09		46.90		20.11	
O. K.	$+0^s.29\cos\varphi$				$+1^s.05\cos\varphi$				$+0^s.26\cos\varphi$			
U. K.	$-0.29\cos\varphi$				$-1.05\cos\varphi$				$-0.26\cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.8$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$0^h\ 56^m$		$+85°\ 47'$		$1^h\ 28^m$		$+88°\ 50'$		$4^h\ 8^m$		$+85°\ 19'$	
	s		"		s		"		s		"	
Sept. 13	43.34	16	15.42	34	32.24	69	16.09	31	46.90	31	20.11	11
14	43.50	15	15.76	36	32.93	72	16.40	34	47.21	31	20.22	11
15	43.65	15	16.12	37	33.65	71	16.74	34	47.52	32	20.33	13
16	43.80	15	16.49	39	34.36	68	17.08	37	47.84	33	20.46	15
17	43.95	13	16.88	40	35.04	63	17.45	37	48.17	33	20.61	17
18	44.08	11	17.28	40	35.67	57	17.82	39	48.50	31	20.78	19
19	44.19	10	17.68	41	36.24	49	18.21	39	48.81	30	20.97	21
20	44.29	7	18.09	39	36.73	42	18.60	39	49.11	28	21.18	21
21	44.36	5	18.48	39	37.15	38	18.99	37	49.39	27	21.39	21
22	44.41	6	18.87	37	37.53	35	19.36	35	49.66	26	21.60	20
23	44.47	6	19.24	35	37.88	35	19.71	35	49.92	26	21.80	20
24	44.53	6	19.59	34	38.23	38	20.06	33	50.18	26	22.00	18
25	44.59	8	19.93	35	38.61	43	20.39	33	50.44	25	22.18	17
26	44.67	9	20.28	35	39.04	47	20.72	34	50.69	27	22.35	16
27	44.76	10	20.63	36	39.51	50	21.06	34	50.96	29	22.51	17
28	44.86	11	20.99	37	40.01	53	21.40	35	51.25	30	22.68	18
29	44.97	9	21.36	40	40.54	51	21.75	39	51.55	30	22.86	19
30	45.06	9	21.76	42	41.05	47	22.14	40	51.85	31	23.05	21
Okt. 1	45.15	6	22.18	43	41.52	42	22.54	42	52.16	30	23.26	23
2	45.21	5	22.61	42	41.94	35	22.96	42	52.46	29	23.49	25
3	45.26	3	23.03	43	42.29	28	23.38	42	52.75	28	23.74	27
4	45.29	1	23.46	41	42.57	22	23.80	41	53.03	26	24.01	27
5	45.30	1	23.87	40	42.79	17	24.21	40	53.29	24	24.28	28
6	45.31	0	24.27	38	42.96	16	24.61	38	53.53	24	24.56	26
7	45.31	1	24.65	37	43.12	17	24.99	37	53.77	23	24.82	24
8	45.32	1	25.02	35	43.29	19	25.36	36	54.00	24	25.06	24
9	45.33	2	25.37	37	43.48	23	25.72	36	54.24	23	25.30	22
10	45.35	3	25.74	36	43.71	27	26.08	35	54.47	25	25.52	22
11	45.38	5	26.10	37	43.98	30	26.43	36	54.72	26	25.74	22
12	45.43	3	26.47	39	44.28	31	26.79	38	54.98	26	25.96	23
13	45.46	3	26.86	40	44.59	28	27.17	40	55.24	27	26.19	25
14	45.49	2	27.26	41	44.87	24	27.57	41	55.51	27	26.44	26
15	45.51	0	27.67	41	45.11	17	27.98	42	55.78	25	26.70	28
16	45.51	2	28.08	42	45.28	9	28.40	41	56.03	24	26.98	30
17	45.49	4	28.50	41	45.37	2	28.81	42	56.27	23	27.28	32
18	45.45	5	28.91	40	45.39	—4	29.23	41	56.50	21	27.60	32
19	45.40	7	29.31	37	45.35	7	29.64	39	56.71	20	27.92	31
20	45.33		29.68		45.28		30.03		56.91		28.23	
O. K.	$+0^s.29 \cos\varphi$				$+1^s.05 \cos\varphi$				$+0^s.26 \cos\varphi$			
U. K.	$-0.29 \cos\varphi$				$-1.05 \cos\varphi$				$-0.26 \cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$.				α Ursae minoris. $2^m.0$.				Gr. 750. $6^m.8$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$0^h\ 56^m$		$+85°\ 47'$		$1^h\ 28^m$		$+88°\ 50'$		$4^h\ 8^m$		$+85°\ 19'$	
	s		"		s		"		s		"	
Okt. 20	45.33	7	29.68	36	45.28	8	30.03	37	56.91	19	28.23	29
21	45.26	5	30.04	35	45.20	7	30.40	36	57.10	18	28.52	28
22	45.21	4	30.39	34	45.13	3	30.76	35	57.28	18	28.80	27
23	45.17	3	30.73	34	45.10	2	31.11	34	57.46	20	29.07	26
24	45.14	3	31.07	35	45.12	5	31.45	36	57.66	21	29.33	26
25	45.11	3	31.42	36	45.17	7	31.81	37	57.87	21	29.59	26
26	45.08	2	31.78	38	45.24	7	32.18	38	58.08	22	29.85	27
27	45.06	3	32.16	39	45.31	5	32.56	40	58.30	23	30.12	30
28	45.03	5	32.55	40	45.36	1	32.96	41	58.53	22	30.42	32
29	44.98	6	32.95	41	45.35	7	33.37	42	58.75	21	30.74	34
30	44.92	9	33.36	41	45.28	16	33.79	42	58.96	20	31.08	34
31	44.83	11	33.77	39	45.12	22	34.21	42	59.16	18	31.42	36
Nov. 1	44.72	13	34.16	38	44.90	27	34.63	40	59.34	17	31.78	35
2	44.59	12	34.54	36	44.63	30	35.03	39	59.51	15	32.13	34
3	44.47	12	34.90	35	44.33	30	35.42	36	59.66	14	32.47	33
4	44.35	11	35.25	32	44.03	28	35.78	35	59.80	14	32.80	32
5	44.24	10	35.57	32	43.75	25	36.13	34	59.94	14	33.12	30
6	44.14	10	35.89	32	43.50	20	36.47	34	60.08	15	33.42	30
7	44.04	8	36.21	32	43.30	17	36.81	34	60.23	16	33.72	29
8	43.96	8	36.53	34	43.13	16	37.15	36	60.39	16	34.01	29
9	43.88	9	36.87	35	42.97	17	37.51	36	60.55	18	34.30	31
10	43.79	9	37.22	36	42.80	22	37.87	37	60.73	17	34.61	33
11	43.70	12	37.58	37	42.58	27	38.24	39	60.90	16	34.94	34
12	43.58	13	37.95	36	42.31	34	38.63	39	61.06	15	35.28	36
13	43.45	16	38.31	36	41.97	42	39.02	39	61.21	13	35.64	38
14	43.29	17	38.67	34	41.55	49	39.41	37	61.34	11	36.02	37
15	43.12	19	39.01	32	41.06	53	39.78	36	61.45	10	36.39	37
16	42.93	19	39.33	30	40.53	55	40.14	34	61.55	8	36.76	36
17	42.74	18	39.63	29	39.98	55	40.48	31	61.63	7	37.12	34
18	42.56	17	39.92	27	39.43	52	40.79	31	61.70	8	37.46	32
19	42.39	16	40.19	27	38.91	47	41.10	30	61.78	7	37.78	31
20	42.23	15	40.46	27	38.44	43	41.40	30	61.85	9	38.09	31
21	42.08	14	40.73	28	38.01	40	41.70	30	61.94	9	38.40	30
22	41.94	13	41.01	29	37.61	39	42.00	32	62.03	11	38.70	32
23	41.81	15	41.30	31	37.22	41	42.32	34	62.14	11	39.02	33
24	41.66	16	41.61	32	36.81	45	42.66	35	62.25	10	39.35	35
25	41.50	18	41.93	32	36.36	51	43.01	36	62.35	10	39.70	37
26	41.32		42.25		35.85		43.37		62.45		40.07	
O. K.	+ $0^s.29 \cos\varphi$				+ $1^s.06 \cos\varphi$				+ $0^s.26 \cos\varphi$			
U. K.	— $0.29 \cos\varphi$				— $1.06 \cos\varphi$				— $0.26 \cos\varphi$			

Obere Kulmination.

1912	43 Hev. Cephei. $4^m.3$. AR.		Dekl.		α Ursae minoris. $2^m.0$. AR.		Dekl.		Gr. 750. $6^m.8$. AR.		Dekl.	
	$0^h\ 56^m$		$+85°\ 47'$		$1^h\ 28^m$		$+88°\ 50'$		$4^h\ 9^m$		$+85°\ 19'$	
Nov. 26	$41^s.32$	19	$42''.25$	32	$35^s.85$	58	$43''.37$	35	$2^s.45$	9	$40''.07$	38
27	41.13	21	42.57	31	35.27	66	43.72	34	2.54	7	40.45	39
28	40.92	23	42.88	30	34.61	71	44.06	34	2.61	5	40.84	38
29	40.69	24	43.18	27	33.90	75	44.40	32	2.66	4	41.22	38
30	40.45	23	43.45	25	33.15	76	44.72	30	2.70	2	41.60	36
Dez. 1	40.22	23	43.70	24	32.39	74	45.02	27	2.72	2	41.96	35
2	39.99	21	43.94	22	31.65	71	45.29	26	2.74	1	42.31	33
3	39.78	21	44.16	22	30.94	66	45.55	26	2.75	1	42.64	31
4	39.57	20	44.38	21	30.28	63	45.81	25	2.76	3	42.95	31
5	39.37	19	44.59	23	29.65	60	46.06	26	2.79	4	43.26	31
6	39.18	18	44.82	23	29.05	60	46.32	26	2.83	4	43.57	32
7	39.00	20	45.05	24	28.45	62	46.58	28	2.87	4	43.89	33
8	38.80	21	45.29	25	27.83	68	46.86	30	2.91	4	44.22	34
9	38.59	24	45.54	24	27.15	74	47.16	29	2.95	2	44.56	36
10	38.35	25	45.78	24	26.41	82	47.45	28	2.97	1	44.92	37
11	38.10	27	46.02	23	25.59	89	47.73	28	2.98	−2	45.29	38
12	37.83	27	46.25	21	24.70	93	48.01	26	2.96	3	45.67	36
13	37.56	28	46.46	19	23.77	96	48.27	24	2.93	5	46.03	36
14	37.28	28	46.65	17	22.81	96	48.51	21	2.88	5	46.39	34
15	37.00	27	46.82	14	21.85	94	48.72	19	2.83	6	46.73	33
16	36.73	25	46.96	14	20.91	89	48.91	18	2.77	7	47.06	30
17	36.48	25	47.10	13	20.02	84	49.09	18	2.70	5	47.36	30
18	36.23	23	47.23	15	19.18	80	49.27	19	2.65	4	47.66	28
19	36.00	23	47.38	15	18.38	77	49.46	20	2.61	4	47.94	29
20	35.77	22	47.53	15	17.61	78	49.66	20	2.57	2	48.23	30
21	35.55	23	47.68	17	16.83	80	49.86	21	2.55	3	48.53	31
22	35.32	26	47.85	18	16.03	85	50.07	22	2.52	3	48.84	32
23	35.06	27	48.03	18	15.18	91	50.29	23	2.49	4	49.16	35
24	34.79	28	48.21	17	14.27	98	50.52	22	2.45	7	49.51	35
25	34.51	30	48.38	15	13.29	104	50.74	20	2.38	8	49.86	35
26	34.21	31	48.53	13	12.25	107	50.94	19	2.30	10	50.21	34
27	33.90	31	48.66	11	11.18	109	51.13	16	2.20	11	50.55	32
28	33.59	30	48.77	8	10.09	108	51.29	14	2.09	12	50.87	31
29	33.29	29	48.85	7	9.01	105	51.43	12	1.97	12	51.18	29
30	33.00	28	48.92	6	7.96	100	51.55	11	1.85	11	51.47	27
31	32.72	26	48.98	6	6.96	94	51.66	11	1.74	12	51.74	26
32	32.46		49.04		6.02		51.77		1.62		52.00	
O. K.	$+0^s.29 \cos\varphi$				$+1^s.06 \cos\varphi$				$+0^s.26 \cos\varphi$			
U. K.	$-0.29 \cos\varphi$				$-1.06 \cos\varphi$				$-0.26 \cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. 5ᵐ.2. AR.	Diff.	Dekl.	Diff.	1 Hev. Draconis. 4ᵐ.3. AR.	Diff.	Dekl.	Diff.	ε Ursae minoris. 4ᵐ.2. AR.	Diff.	Dekl.	Diff.
	$7^h\ 0^m$		$+87°\ 11'$		$9^h\ 24^m$		$+81°\ 42'$		$16^h\ 54^m$		$+82°\ 10'$	
Jan. 1	4.15 s	18	26.98 "	28	46.14 s	14	53.18 "	14	49.78 s	3	45.59 "	33
2	4.33	19	27.26	30	46.28	14	53.32	15	49.81	4	45.26	35
3	4.52	19	27.56	31	46.42	15	53.47	16	49.85	4	44.91	37
4	4.71	18	27.87	33	46.57	15	53.63	19	49.89	5	44.54	38
5	4.89	15	28.20	35	46.72	15	53.82	21	49.94	8	44.16	37
6	5.04	12	28.55	36	46.87	14	54.03	23	50.02	8	43.79	36
7	5.16	9	28.91	35	47.01	13	54.26	24	50.10	8	43.43	35
8	5.25	6	29.26	35	47.14	11	54.50	26	50.18	9	43.08	33
9	5.31	3	29.61	35	47.25	11	54.76	24	50.27	9	42.75	30
10	5.34	2	29.96	32	47.36	10	55.00	23	50.36	9	42.45	29
11	5.36	1	30.28	31	47.46	10	55.23	23	50.45	10	42.16	27
12	5.37	0	30.59	30	47.56	9	55.46	21	50.55	8	41.89	28
13	5.37	1	30.89	29	47.65	10	55.67	21	50.63	8	41.61	27
14	5.38	3	31.18	28	47.75	11	55.88	20	50.71	8	41.34	29
15	5.41	5	31.46	30	47.86	10	56.08	21	50.79	7	41.05	30
16	5.46	5	31.76	31	47.96	11	56.29	23	50.86	9	40.75	31
17	5.51	4	32.07	33	48.07	12	56.52	25	50.95	10	40.44	32
18	5.55	3	32.40	34	48.19	10	56.77	26	51.05	10	40.12	33
19	5.58	0	32.74	36	48.29	10	57.03	28	51.15	11	39.79	31
20	5.58	1	33.10	36	48.39	10	57.31	30	51.26	12	39.48	31
21	5.57	5	33.46	36	48.49	9	57.61	30	51.38	13	39.17	28
22	5.52	8	33.82	35	48.58	7	57.91	30	51.51	13	38.89	26
23	5.44	11	34.17	33	48.65	7	58.21	30	51.64	12	38.63	24
24	5.33	11	34.50	30	48.72	6	58.51	27	51.76	13	38.39	23
25	5.22	12	34.80	29	48.78	6	58.78	26	51.89	12	38.16	21
26	5.10	10	35.09	27	48.84	5	59.04	25	52.01	11	37.95	21
27	5.00	9	35.36	28	48.89	7	59.29	24	52.12	10	37.74	22
28	4.91	8	35.64	27	48.96	7	59.53	23	52.22	10	37.52	23
29	4.83	7	35.91	28	49.03	7	59.76	25	52.32	11	37.29	25
30	4.76	5	36.19	29	49.10	7	60.01	25	52.43	12	37.04	25
31	4.71	7	36.48	31	49.17	8	60.26	27	52.55	12	36.79	26
Febr. 1	4.64	8	36.79	32	49.25	7	60.53	30	52.67	13	36.53	26
2	4.56	11	37.11	33	49.32	7	60.83	32	52.80	14	36.27	25
3	4.45	15	37.44	34	49.39	5	61.15	33	52.94	15	36.02	24
4	4.30	17	37.78	32	49.44	5	61.48	32	53.09	15	35.78	21
5	4.13	20	38.10	32	49.49	3	61.80	33	53.24	16	35.57	18
6	3.93	21	38.42	29	49.52	3	62.13	32	53.40	15	35.39	17
7	3.72		38.71		49.55		62.45		53.55		35.22	
O. K.	+ 0ˢ.44 cos φ				+ 0ˢ.15 cos φ				+ 0ˢ.16 cos φ			
U. K.	— 0 .44 cos φ				— 0 .15 cos φ				— 0 .16 cos φ			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$.				1 Hev. Draconis. $4^m.3$.				ε Ursae minoris. $4^m.2$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$6^h 59^m$		$+87° 11'$		$9^h 24^m$		$+81° 43'$		$16^h 54^m$		$+82° 10'$	
Febr. 7	63.72	23	38.71	27	49.55	1	2.45	30	53.55	15	35.22	15
8	63.49	23	38.98	26	49.56	2	2.75	29	53.70	14	35.07	14
9	63.26	23	39.24	24	49.58	2	3.04	27	53.84	14	34.93	13
10	63.03	22	39.48	25	49.60	2	3.31	27	53.98	13	34.80	15
11	62.81	20	39.73	24	49.62	2	3.58	27	54.11	13	34.65	16
12	62.61	19	39.97	25	49.64	3	3.85	28	54.24	14	34.49	16
13	62.42	18	40.22	26	49.67	3	4.13	30	54.38	14	34.33	18
14	62.24	19	40.48	27	49.70	2	4.43	30	54.52	14	34.15	17
15	62.05	21	40.75	28	49.72	3	4.73	33	54.66	16	33.98	18
16	61.84	24	41.03	29	49.75	2	5.06	35	54.82	16	33.80	16
17	61.60	27	41.32	29	49.77	0	5.41	35	54.98	17	33.64	14
18	61.33	29	41.61	29	49.77	0	5.76	34	55.15	18	33.50	12
19	61.04	31	41.90	26	49.77	1	6.10	33	55.33	18	33.38	9
20	60.73	33	42.16	24	49.76	2	6.43	31	55.51	17	33.29	7
21	60.40	33	42.40	21	49.74	3	6.74	30	55.68	16	33.22	5
22	60.07	32	42.61	20	49.71	2	7.04	28	55.84	15	33.17	6
23	59.75	31	42.81	18	49.69	2	7.32	27	55.99	14	33.11	5
24	59.44	28	42.99	18	49.67	2	7.59	26	56.13	14	33.06	5
25	59.16	28	43.17	18	49.65	2	7.85	26	56.27	14	33.01	7
26	58.88	26	43.35	19	49.63	0	8.11	27	56.41	15	32.94	8
27	58.62	26	43.54	20	49.63	1	8.38	29	56.56	15	32.86	10
28	58.36	28	43.74	21	49.62	2	8.67	30	56.71	16	32.76	9
29	58.08	29	43.95	22	49.60	1	8.97	30	56.87	16	32.67	8
März 1	57.79	32	44.17	23	49.59	3	9.27	32	57.03	17	32.59	6
2	57.47	34	44.40	21	49.56	4	9.59	33	57.20	18	32.53	4
3	57.13	37	44.61	21	49.52	4	9.92	32	57.38	17	32.49	2
4	56.76	40	44.82	18	49.48	5	10.24	31	57.55	18	32.47	0
5	56.36	40	45.00	17	49.43	7	10.55	29	57.73	18	32.47	2
6	55.96	40	45.17	14	49.36	7	10.84	27	57.91	16	32.49	4
7	55.56	39	45.31	13	49.29	6	11.11	26	58.07	15	32.53	5
8	55.17	39	45.44	11	49.23	6	11.37	25	58.22	15	32.58	4
9	54.78	36	45.55	11	49.17	6	11.62	24	58.37	14	32.62	2
10	54.42	34	45.66	12	49.11	6	11.86	24	58.51	15	32.64	2
11	54.08	34	45.78	12	49.05	5	12.10	25	58.66	15	32.66	0
12	53.74	34	45.90	14	49.00	5	12.35	27	58.81	16	32.66	0
13	53.40	34	46.04	15	48.95	5	12.62	27	58.97	16	32.66	1
14	53.06	37	46.19	15	48.90	5	12.89	29	59.13	16	32.67	1
15	52.69		46.34		48.85		13.18		59.29		32.68	
O. K.	$+ 0^s.44 \cos \varphi$				$+ 0^s.15 \cos \varphi$				$+ 0^s.16 \cos \varphi$			
U. K.	$- 0.44 \cos \varphi$				$- 0.15 \cos \varphi$				$- 0.16 \cos \varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$.				1 Hev. Draconis. $4^m.3$.				ε Ursae minoris. $4^m.2$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$6^h\ 59^m$		+87° 11′		$9^h\ 24^m$		+81° 43′		$16^h\ 54^m$		+82° 10′	
März 15	$52^s.69$	39	$46''.34$	15	$48^s.85$	7	$13''.18$	29	$59^s.29$	16	$32''.68$	3
16	52.30	41	46.49	15	48.78	7	13.47	30	59.45	18	32.71	5
17	51.89	44	46.64	13	48.71	9	13.77	28	59.63	17	32.76	8
18	51.45	45	46.77	10	48.62	9	14.05	27	59.80	18	32.84	10
19	51.00	45	46.87	8	48.53	10	14.32	25	59.98	16	32.94	12
20	50.55	44	46.95	6	48.43	10	14.57	23	60.14	15	33.06	12
21	50.11	42	47.01	3	48.33	9	14.80	20	60.29	14	33.18	12
22	49.69	41	47.04	3	48.24	10	15.00	19	60.43	13	33.30	12
23	49.28	38	47.07	2	48.14	9	15.19	19	60.56	13	33.42	11
24	48.90	36	47.09	4	48.05	8	15.38	18	60.69	13	33.53	10
25	48.54	35	47.13	4	47.97	8	15.56	20	60.82	13	33.63	8
26	48.19	36	47.17	5	47.89	8	15.76	21	60.95	14	33.71	8
27	47.83	36	47.22	7	47.81	8	15.97	23	61.09	15	33.79	9
28	47.47	38	47.29	7	47.73	8	16.20	23	61.24	15	33.88	10
29	47.09	41	47.36	6	47.65	9	16.43	24	61.39	15	33.98	12
30	46.68	43	47.42	5	47.56	11	16.67	23	61.54	16	34.10	15
31	46.25	45	47.47	3	47.45	11	16.90	22	61.70	15	34.25	16
April 1	45.80	47	47.50	1	47.34	11	17.12	20	61.85	15	34.41	19
2	45.33	46	47.51	1	47.23	13	17.32	18	62.00	14	34.60	21
3	44.87	45	47.50	3	47.10	13	17.50	16	62.14	13	34.81	21
4	44.42	43	47.47	5	46.97	12	17.66	15	62.27	12	35.02	20
5	43.99	41	47.42	4	46.85	12	17.81	14	62.39	12	35.22	20
6	43.58	39	47.38	5	46.73	11	17.95	14	62.51	11	35.42	19
7	43.19	38	47.33	4	46.62	10	18.09	14	62.62	12	35.61	18
8	42.81	36	47.29	3	46.52	11	18.23	15	62.74	11	35.79	17
9	42.45	36	47.26	3	46.41	10	18.38	16	62.85	12	35.96	16
10	42.09	38	47.23	1	46.31	11	18.54	16	62.97	13	36.12	17
11	41.71	39	47.22	1	46.20	11	18.70	18	63.10	14	36.29	19
12	41.32	41	47.21	2	46.09	12	18.88	17	63.24	13	36.48	19
13	40.91	44	47.19	3	45.97	12	19.05	17	63.37	13	36.67	22
14	40.47	44	47.16	5	45.85	13	19.22	14	63.50	13	36.89	24
15	40.03	44	47.11	7	45.72	14	19.36	13	63.63	12	37.13	26
16	39.59	44	47.04	10	45.58	15	19.49	10	63.75	11	37.39	27
17	39.15	42	46.94	13	45.43	14	19.59	8	63.86	10	37.66	27
18	38.73	40	46.81	13	45.29	13	19.67	7	63.96	9	37.93	27
19	38.33	36	46.68	14	45.16	13	19.74	6	64.05	8	38.20	25
20	37.97	34	46.54	14	45.03	13	19.80	5	64.13	8	38.45	24
21	37.63		46.40		44.90		19.85		64.21		38.69	
O. K.	$+0^s.44 \cos\varphi$				$+0^s.15 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. K.	$-0\ .44 \cos\varphi$				$-0\ .15 \cos\varphi$				$-0\ .16 \cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$. AR.		Dekl.		1 Hev. Draconis. $4^m.3$. AR.		Dekl.		ε Ursae minoris. $4^m.2$. AR.		Dekl.	
	$6^h\ 59^m$		$+87°\ 11'$		$9^h\ 24^m$		$+81°\ 43'$		$16^h\ 55^m$		$+82°\ 10'$	
April 21	37.63	32	46.40	12	44.90	11	19.85	6	4.21	8	38.69	23
22	37.31	31	46.28	12	44.79	11	19.91	7	4.29	9	38.92	22
23	37.00	32	46.16	10	44.68	10	19.98	7	4.38	9	39.14	21
24	36.68	33	46.06	10	44.58	12	20.05	9	4.47	9	39.35	23
25	36.35	35	45.96	9	44.46	12	20.14	9	4.56	10	39.58	23
26	36.00	37	45.87	9	44.34	13	20.23	10	4.66	11	39.81	26
27	35.63	38	45.78	12	44.21	13	20.33	8	4.77	10	40.07	27
28	35.25	40	45.66	14	44.08	15	20.41	7	4.87	9	40.34	30
29	34.85	39	45.52	16	43.93	14	20.48	4	4.96	8	40.64	31
30	34.46	38	45.36	18	43.79	15	20.52	2	5.04	7	40.95	32
Mai 1	34.08	36	45.18	19	43.64	14	20.54	1	5.11	6	41.27	32
2	33.72	34	44.99	20	43.50	14	20.55	1	5.17	6	41.59	31
3	33.38	31	44.79	20	43.36	14	20.54	2	5.23	5	41.90	30
4	33.07	29	44.59	19	43.22	12	20.52	2	5.28	5	42.20	28
5	32.78	28	44.40	19	43.10	12	20.50	1	5.33	5	42.48	27
6	32.50	27	44.21	18	42.98	12	20.49	0	5.38	6	42.75	27
7	32.23	27	44.03	16	42.86	11	20.49	1	5.44	6	43.02	26
8	31.96	29	43.87	16	42.75	12	20.50	2	5.50	6	43.28	27
9	31.67	30	43.71	16	42.63	13	20.52	2	5.56	7	43.55	28
10	31.37	32	43.55	16	42.50	13	20.54	2	5.63	7	43.83	30
11	31.05	32	43.39	19	42.37	14	20.56	0	5.70	6	44.13	32
12	30.73	33	43.20	20	42.23	14	20.56	1	5.76	5	44.45	34
13	30.40	32	43.00	23	42.09	14	20.55	4	5.81	4	44.79	35
14	30.08	30	42.77	25	41.95	15	20.51	7	5.85	4	45.14	35
15	29.78	28	42.52	26	41.80	14	20.44	8	5.89	3	45.49	34
16	29.50	24	42.26	27	41.66	13	20.36	10	5.92	1	45.83	34
17	29.26	22	41.99	26	41.53	12	20.26	11	5.93	1	46.17	31
18	29.04	19	41.73	26	41.41	11	20.15	10	5.94	1	46.48	29
19	28.85	18	41.47	24	41.30	10	20.05	9	5.95	1	46.77	28
20	28.67	17	41.23	23	41.20	11	19.96	8	5.96	1	47.05	27
21	28.50	18	41.00	21	41.09	10	19.88	8	5.97	2	47.32	28
22	28.32	18	40.79	22	40.99	11	19.80	6	5.99	2	47.60	28
23	28.14	21	40.57	21	40.88	11	19.74	5	6.01	2	47.88	30
24	27.93	23	40.36	22	40.77	13	19.69	7	6.03	3	48.18	32
25	27.70	24	40.14	25	40.64	13	19.62	9	6.06	2	48.50	33
26	27.46	23	39.89	26	40.51	14	19.53	10	6.08	1	48.83	36
27	27.23	22	39.63	29	40.37	13	19.43	12	6.09	1	49.19	36
28	27.01		39.34		40.24		19.31		6.10		49.55	
O. K.	$+0^s.44 \cos\varphi$				$+0^s.15 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. K.	$-0.44 \cos\varphi$				$-0.15 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$.				1 Hev. Draconis. $4^m.3$.				ε Ursae minoris. $4^m.2$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$6^h\ 59^m$		+87° 11′		$9^h\ 24^m$		+81° 43′		$16^h\ 55^m$		+82° 10′	
	s		″		s		″		s		″	
Mai 28	27.01	21	39.34	30	40.24	13	19.31	14	6.10	2	49.55	35
29	26.80	19	39.04	30	40.11	12	19.17	16	6.08	1	49.90	34
30	26.61	15	38.74	31	39.99	12	19.01	18	6.07	2	50.24	34
31	26.46	12	38.43	31	39.87	11	18.83	17	6.05	3	50.58	32
Juni 1	26.34	11	38.12	29	39.76	10	18.66	16	6.02	2	50.90	30
2	26.23	10	37.83	27	39.66	9	18.50	16	6.00	3	51.20	28
3	26.13	10	37.56	26	39.57	9	18.34	14	5.97	2	51.48	28
4	26.03	9	37.30	25	39.48	9	18.20	13	5.95	1	51.76	29
5	25.94	10	37.05	25	39.39	10	18.07	12	5.94	0	52.05	29
6	25.84	13	36.80	25	39.29	10	17.95	12	5.94	1	52.34	30
7	25.71	14	36.55	27	39.19	11	17.83	14	5.93	1	52.64	32
8	25.57	15	36.28	28	39.08	11	17.69	15	5.92	2	52.96	33
9	25.42	14	36.00	30	38.97	12	17.54	18	5.90	3	53.29	34
10	25.28	12	35.70	32	38.85	11	17.36	20	5.87	4	53.63	35
11	25.16	9	35.38	33	38.74	11	17.16	21	5.83	5	53.98	34
12	25.07	7	35.05	34	38.63	9	16.95	24	5.78	5	54.32	33
13	25.00	4	34.71	34	38.54	9	16.71	24	5.73	7	54.65	32
14	24.96	1	34.37	34	38.45	8	16.47	25	5.66	7	54.97	29
15	24.95	2	34.03	32	38.37	8	16.22	23	5.59	7	55.26	28
16	24.97	3	33.71	30	38.29	7	15.99	22	5.52	7	55.54	26
17	25.00	3	33.41	28	38.22	6	15.77	20	5.45	6	55.80	26
18	25.03	1	33.13	28	38.16	7	15.57	20	5.39	5	56.06	26
19	25.04	0	32.85	28	38.09	7	15.37	19	5.34	5	56.32	27
20	25.04	2	32.57	27	38.02	8	15.18	19	5.29	6	56.59	29
21	25.02	3	32.30	29	37.94	9	14.99	21	5.23	5	56.88	30
22	24.99	4	32.01	31	37.85	9	14.78	22	5.18	6	57.18	31
23	24.95	3	31.70	32	37.76	9	14.56	24	5.12	6	57.49	32
24	24.92	1	31.38	34	37.67	9	14.32	26	5.06	8	57.81	32
25	24.91	2	31.04	35	37.58	8	14.06	28	4.98	9	58.13	31
26	24.93	4	30.69	36	37.50	7	13.78	29	4.89	9	58.44	31
27	24.97	7	30.33	34	37.43	7	13.49	29	4.80	9	58.75	28
28	25.04	9	29.99	34	37.36	5	13.20	29	4.71	11	59.03	26
29	25.13	11	29.65	31	37.31	5	12.91	27	4.60	10	59.29	24
30	25.24	12	29.34	30	37.26	4	12.64	26	4.50	9	59.53	24
Juli 1	25.36	12	29.04	28	37.22	5	12.38	25	4.41	8	59.77	22
2	25.48	10	28.76	28	37.17	5	12.13	23	4.33	8	59.99	23
3	25.58	9	28.48	27	37.12	5	11.90	23	4.25	8	60.22	24
4	25.67		28.21		37.07		11.67		4.17		60.46	
O. K.	$+\ 0^s.44 \cos\varphi$				$+\ 0^s.15 \cos\varphi$				$+\ 0^s.16 \cos\varphi$			
U. K.	$-\ 0\ .44 \cos\varphi$				$-\ 0\ .15 \cos\varphi$				$-\ 0\ .16 \cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$.				1 Hev. Draconis. $4^m.3$.				ε Ursae minoris. $4^m.2$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$6^h\ 59^m$		$+87°\ 11'$		$9^h\ 24^m$		$+81°\ 43'$		$16^h\ 54^m$		$+82°\ 11'$	
Juli 4	$25^s.67$	8	28.21	28	$37^s.07$	5	11.67	24	$64^s.17$	8	0.46	25
5	25.75	6	27.93	29	37.02	6	11.43	25	64.09	8	0.71	27
	25.81	7	27.64	32								
6	25.88	7	27.32	33	36.96	7	11.18	28	64.01	10	0.98	28
7	25.95	9	26.99	35	36.89	6	10.90	29	63.91	10	1.26	29
8	26.04	13	26.64	36	36.83	5	10.61	31	63.81	11	1.55	28
9	26.17	16	26.28	35	36.78	5	10.30	32	63.70	13	1.83	27
10	26.33	19	25.93	34	36.73	5	9.98	34	63.57	13	2.10	25
11	26.52	21	25.59	33	36.68	3	9.64	34	63.44	13	2.35	23
12	26.73	23	25.26	31	36.65	2	9.30	33	63.31	13	2.58	21
13	26.96	24	24.95	29	36.63	0	8.97	32	63.18	13	2.79	19
14	27.20	23	24.66	29	36.63	1	8.65	31	63.05	13	2.98	17
15	27.43	21	24.37	27	36.62	2	8.34	29	62.92	12	3.15	18
16	27.64	19	24.10	27	36.60	2	8.05	28	62.80	12	3.33	18
17	27.83	17	23.83	28	36.58	2	7.77	28	62.68	11	3.51	20
18	28.00	17	23.55	29	36.56	2	7.49	28	62.57	12	3.71	20
19	28.17	17	23.26	30	36.54	3	7.21	30	62.45	11	3.91	22
20	28.34	19	22.96	32	36.51	4	6.91	32	62.34	12	4.13	23
21	28.53	20	22.64	34	36.47	3	6.59	33	62.22	13	4.36	23
22	28.73	23	22.30	35	36.44	2	6.26	34	62.09	15	4.59	23
23	28.96	26	21.95	33	36.42	2	5.92	35	61.94	15	4.82	22
24	29.22	28	21.62	31	36.40	1	5.57	37	61.79	16	5.04	19
25	29.50	30	21.31	30	36.39	1	5.20	36	61.63	15	5.23	17
26	29.80	31	21.01	28	36.38	1	4.84	35	61.48	15	5.40	15
27	30.11	31	20.73	27	36.39	2	4.49	33	61.33	15	5.55	14
28	30.42	30	20.46	25	36.41	2	4.16	31	61.18	15	5.69	13
29	30.72	28	20.21	24	36.43	1	3.85	30	61.03	14	5.82	12
30	31.00	26	19.97	24	36.44	1	3.55	29	60.89	13	5.94	13
31	31.26	26	19.73	25	36.45	1	3.26	30	60.76	13	6.07	14
Aug. 1	31.52	26	19.48	27	36.46	0	2.96	30	60.63	13	6.21	16
2	31.78	26	19.21	29	36.46	0	2.66	32	60.50	15	6.37	17
3	32.04	27	18.92	31	36.46	0	2.34	34	60.35	15	6.54	18
4	32.31	30	18.61	30	36.46	0	2.00	36	60.20	15	6.72	17
5	32.61	33	18.31	31	36.46	1	1.64	37	60.05	17	6.89	16
6	32.94	36	18.00	30	36.47	1	1.27	38	59.88	18	7.05	15
7	33.30	38	17.70	28	36.48	3	0.89	38	59.70	18	7.20	12
8	33.68	40	17.42	27	36.51	4	0.51	37	59.52	18	7.32	10
9	34.08		17.15		36.55		0.14		59.34		7.42	
O. K.	$+0^s.43\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. K.	$-0.43\cos\varphi$				$-0.15\cos\varphi$				$-0.16\cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$. AR.		Dekl.		1 Hev. Draconis. $4^m.3$. AR.		Dekl.		ε Ursae minoris. $4^m.2$. AR.		Dekl.	
	$6^h\ 59^m$		+87° 11′		$9^h\ 24^m$		+81° 42′		$16^h\ 54^m$		+82° 11′	
	s		″		s		″		s		″	
Aug. 9	34.08	41	17.15	25	36.55	4	60.14	37	59.34	17	7.42	8
10	34.49	40	16.90	24	36.59	5	59.77	35	59.17	17	7.50	7
11	34.89	39	16.66	22	36.64	5	59.42	34	59.00	17	7.57	6
					36.69	4	59.08	32				
12	35.28	37	16.44	22	36.73	5	58.76	32	58.83	16	7.63	6
13	35.65	36	16.22	22	36.78	4	58.44	32	58.67	15	7.69	6
14	36.01	34	16.00	22	36.82	3	58.12	32	58.52	15	7.75	8
15	36.35	33	15.78	24	36.85	3	57.80	33	58.37	16	7.83	9
16	36.68	35	15.54	25	36.88	3	57.47	35	58.21	16	7.92	11
17	37.03	36	15.29	27	36.91	3	57.12	37	58.05	16	8.03	11
18	37.39	38	15.02	27	36.94	4	56.75	37	57.89	18	8.14	11
19	37.77	41	14.75	26	36.98	5	56.38	39	57.71	18	8.25	9
20	38.18	43	14.49	26	37.03	6	55.99	38	57.53	18	8.34	7
21	38.61	45	14.23	24	37.09	7	55.61	36	57.35	20	8.41	5
22	39.06	46	13.99	22	37.16	8	55.25	36	57.15	19	8.46	3
23	39.52	47	13.77	20	37.24	7	54.89	34	56.96	19	8.49	1
24	39.99	45	13.57	17	37.31	7	54.55	32	56.77	17	8.50	0
25	40.44	44	13.40	17	37.38	8	54.23	31	56.60	17	8.50	1
26	40.88	42	13.23	17	37.46	8	53.92	30	56.43	17	8.49	0
27	41.30	41	13.06	17	37.54	6	53.62	30	56.26	16	8.49	1
28	41.71	40	12.89	18	37.60	5	53.32	31	56.10	16	8.50	2
29	42.11	40	12.71	20	37.65	6	53.01	33	55.94	16	8.52	3
30	42.51	40	12.51	21	37.71	6	52.68	34	55.78	17	8.55	3
31	42.91	43	12.30	23	37.77	6	52.34	37	55.61	18	8.58	5
Sept. 1	43.34	45	12.07	22	37.83	7	51.97	37	55.43	19	8.63	3
2	43.79	47	11.85	21	37.90	8	51.60	38	55.24	19	8.66	2
3	44.26	50	11.64	21	37.98	9	51.22	38	55.05	20	8.68	1
4	44.76	53	11.43	19	38.07	11	50.84	37	54.85	20	8.67	2
5	45.29	54	11.24	17	38.18	11	50.47	34	54.65	20	8.65	5
6	45.83	53	11.07	15	38.29	10	50.13	32	54.45	19	8.60	6
7	46.36	52	10.92	13	38.39	11	49.81	31	54.26	18	8.54	7
8	46.88	50	10.79	12	38.50	11	49.50	30	54.08	17	8.47	8
9	47.38	47	10.67	12	38.61	10	49.20	30	53.91	17	8.39	7
10	47.85	47	10.55	12	38.71	10	48.90	29	53.74	17	8.32	6
11	48.32	45	10.43	14	38.81	8	48.61	30	53.57	17	8.26	5
12	48.77	45	10.29	15	38.89	9	48.31	32	53.40	17	8.21	3
13	49.22	46	10.14	16	38.98	9	47.99	33	53.23	17	8.18	3
14	49.68		9.98		39.07		47.66		53.06		8.15	
O. K.	$+ 0^s.43 \cos\varphi$				$+ 0^s.15 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. K.	$- 0.43 \cos\varphi$				$- 0.15 \cos\varphi$				$- 0.16 \cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. 5ᵐ.2. AR.		51 Hev. Cephei. Dekl.		1 Hev. Draconis. 4ᵐ.3. AR.		1 Hev. Draconis. Dekl.		ε Ursae minoris. 4ᵐ.2. AR.		ε Ursae minoris. Dekl.	
	$6^h\ 59^m$		$+87°\ 11'$		$9^h\ 24^m$		$+81°\ 42'$		$16^h\ 54^m$		$+82°\ 11'$	
Sept. 14	49.68	48	9.98	17	39.07	10	47.66	35	53.06	18	8.15	3
15	50.16	50	9.81	17	39.17	10	47.31	35	52.88	19	8.12	3
16	50.66	52	9.64	16	39.27	11	46.96	35	52.69	20	8.09	6
17	51.18	53	9.48	15	39.38	12	46.61	33	52.49	19	8.03	7
18	51.71	56	9.33	12	39.50	12	46.28	33	52.30	20	7.96	10
19	52.27	57	9.21	10	39.62	12	45.95	31	52.10	19	7.86	12
20	52.84	56	9.11	8	39.74	14	45.64	29	51.91	18	7.74	14
21	53.40	53	9.03	6	39.88	13	45.35	27	51.73	18	7.60	15
22	53.93	52	8.97	6	40.01	13	45.08	26	51.55	17	7.45	14
23	54.45	50	8.91	5	40.14	11	44.82	26	51.38	16	7.31	14
24	54.95	47	8.86	7	40.25	12	44.56	27	51.22	15	7.17	12
25	55.42	48	8.79	7	40.37	11	44.29	27	51.07	15	7.05	11
26	55.90	48	8.72	9	40.48	12	44.02	29	50.92	16	6.94	10
27	56.38	49	8.63	11	40.60	11	43.73	31	50.76	17	6.84	9
28	56.87	51	8.52	11	40.71	12	43.42	31	50.59	18	6.75	10
29	57.38	54	8.41	11	40.83	13	43.11	32	50.41	18	6.65	12
30	57.92	56	8.30	9	40.96	14	42.79	31	50.23	19	6.53	13
Okt. 1	58.48	59	8.21	8	41.10	15	42.48	31	50.04	19	6.40	15
2	59.07	59	8.13	6	41.25	16	42.17	29	49.85	19	6.25	18
3	59.66	59	8.07	4	41.41	16	41.88	27	49.66	18	6.07	20
4	60.25	59	8.03	1	41.57	16	41.61	25	49.48	18	5.87	21
5	60.84	56	8.02	0	41.73	16	41.36	23	49.30	16	5.66	21
6	61.40	53	8.02	0	41.89	15	41.13	23	49.14	16	5.45	21
7	61.93	52	8.02	0	42.04	14	40.90	22	48.98	15	5.24	20
8	62.45	50	8.02	1	42.18	13	40.68	23	48.83	15	5.04	19
9	62.95	49	8.01	2	42.31	13	40.45	24	48.68	15	4.85	17
10	63.44	50	7.99	4	42.44	14	40.21	24	48.53	15	4.68	16
11	63.94	50	7.95	4	42.58	13	39.97	26	48.38	15	4.52	16
12	64.44	53	7.91	4	42.71	14	39.71	28	48.23	17	4.36	17
13	64.97	55	7.87	3	42.85	16	39.43	27	48.06	17	4.19	17
14	65.52	56	7.84	2	43.01	16	39.16	26	47.89	18	4.02	20
15	66.08	58	7.82	0	43.17	18	38.90	25	47.71	16	3.82	22
16	66.66	59	7.82	2	43.35	17	38.65	22	47.55	16	3.60	24
17	67.25	57	7.84	5	43.52	17	38.43	21	47.39	16	3.36	25
18	67.82	56	7.89	6	43.69	17	38.22	19	47.23	15	3.11	27
19	68.38	53	7.95	7	43.86	17	38.03	17	47.08	14	2.84	28
20	68.91	51	8.02	7	44.03	16	37.86	16	46.94	13	2.56	26
21	69.42		8.09		44.19		37.70		46.81		2.30	
O. K.	$+0^s.43 \cos\varphi$				$+0^s.15 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. K.	$-0.43 \cos\varphi$				$-0.15 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$. AR.		Dekl.		1 Hev. Draconis. $4^m.3$. AR.		Dekl.		ε Ursae minoris. $4^m.2$. AR.		Dekl.	
	$7^h\ 0^m$		$+87°\ 11'$		$9^h\ 24^m$		$+81°\ 42'$		$16^h\ 54^m$		$+82°\ 10'$	
Okt. 21	9.42	50	8.09	7	44.19	16	37.70	16	46.81	12	62.30	25
22	9.92	48	8.16	6	44.35	14	37.54	18	46.69	12	62.05	24
23	10.40	48	8.22	4	44.49	15	37.36	18	46.57	13	61.81	23
24	10.88	48	8.26	4	44.64	16	37.18	20	46.44	13	61.58	22
25	11.36	50	8.30	3	44.80	16	36.98	21	46.31	14	61.36	22
26	11.86	53	8.33	3	44.96	16	36.77	22	46.17	14	61.14	22
27	12.39	54	8.36	3	45.12	17	36.55	21	46.03	14	60.92	24
28	12.93	56	8.39	4	45.29	17	36.34	20	45.89	15	60.68	26
29	13.49	57	8.43	7	45.46	19	36.14	19	45.74	15	60.42	28
30	14.06	58	8.50	10	45.65	20	35.95	17	45.59	15	60.14	30
31	14.64	56	8.60	11	45.85	19	35.78	14	45.44	13	59.84	32
Nov. 1	15.20	54	8.71	12	46.04	19	35.64	13	45.31	12	59.52	32
2	15.74	52	8.83	14	46.23	18	35.51	11	45.19	11	59.20	33
3	16.26	50	8.97	13	46.41	18	35.40	11	45.08	11	58.87	32
4	16.76	47	9.10	13	46.59	16	35.29	10	44.97	10	58.55	31
5	17.23	45	9.23	11	46.75	16	35.19	12	44.87	10	58.24	29
6	17.68	45	9.34	11	46.91	16	35.07	12	44.77	10	57.95	28
7	18.13	46	9.45	10	47.07	17	34.95	13	44.67	10	57.67	27
8	18.59	47	9.55	10	47.24	17	34.82	14	44.57	11	57.40	27
9	19.06	49	9.65	9	47.41	17	34.68	15	44.46	11	57.13	28
10	19.55	50	9.74	11	47.58	18	34.53	15	44.35	11	56.85	29
11	20.05	52	9.85	12	47.76	19	34.38	12	44.24	11	56.56	31
12	20.57	52	9.97	15	47.95	19	34.26	11	44.13	11	56.25	33
13	21.09	51	10.12	17	48.14	20	34.15	9	44.02	10	55.92	36
14	21.60	50	10.29	19	48.34	19	34.06	6	43.92	9	55.56	37
15	22.10	48	10.48	20	48.53	19	34.00	5	43.83	8	55.19	36
16	22.58	45	10.68	21	48.72	19	33.95	3	43.75	8	54.83	36
17	23.03	42	10.89	20	48.91	17	33.92	3	43.67	6	54.47	36
18	23.45	40	11.09	20	49.08	17	33.89	3	43.61	6	54.11	34
19	23.85	40	11.29	19	49.25	17	33.86	3	43.55	6	53.77	32
20	24.25	39	11.48	16	49.42	16	33.83	4	43.49	6	53.45	31
21	24.64	40	11.64	16	49.58	17	33.79	6	43.43	7	53.14	30
22	25.04	41	11.80	15	49.75	17	33.73	7	43.36	7	52.84	31
23	25.45	43	11.95	16	49.92	17	33.66	8	43.29	8	52.53	32
24	25.88	45	12.11	17	50.09	19	33.58	7	43.21	8	52.21	34
25	26.33	46	12.28	19	50.28	19	33.51	5	43.13	8	51.87	35
26	26.79	47	12.47	21	50.47	20	33.46	2	43.05	8	51.52	37
27	27.26		12.68		50.67		33.44		42.97		51.15	
O. K.	$+0^s.43\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. K.	$-0.43\cos\varphi$				$-0.15\cos\varphi$				$-0.16\cos\varphi$			

Obere Kulmination.

1912	51 Hev. Cephei. $5^m.2$. AR.		Dekl.		1 Hev. Draconis. $4^m.3$. AR.		Dekl.		ε Ursae minoris. $4^m.2$. AR.		Dekl.	
	$7^h\ 0^m$		$+87°\ 11'$		$9^h\ 24^m$		$+81°\ 42'$		$16^h\ 54^m$		$+82°\ 10'$	
Nov. 27	27.26	45	12.68	24	50.67	20	33.44	1	42.97	6	51.15	38
28	27.71	43	12.92	25	50.87	20	33.43	1	42.91	6	50.77	40
29	28.14	41	13.17	25	51.07	19	33.44	3	42.85	4	50.37	40
30	28.55	39	13.42	27	51.26	18	33.47	4	42.81	4	49.97	39
Dez. 1	28.94	36	13.69	25	51.44	18	33.51	5	42.77	3	49.58	38
2	29.30	33	13.94	25	51.62	16	33.56	4	42.74	2	49.20	36
3	29.63	32	14.19	23	51.78	16	33.60	2	42.72	3	48.84	34
4	29.95	32	14.42	22	51.94	15	33.62	2	42.69	2	48.50	33
5	30.27	32	14.64	21	52.09	16	33.64	2	42.67	3	48.17	31
6	30.59	34	14.85	22	52.25	17	33.66	1	42.64	4	47.86	33
									42.60	4	47.53	33
7	30.93	35	15.07	22	52.42	17	33.67	0	42.56	3	47.20	36
8	31.28	36	15.29	23	52.59	18	33.67	2	42.53	4	46.84	38
9	31.64	36	15.52	25	52.77	18	33.69	4	42.49	2	46.46	38
10	32.00	37	15.77	27	52.95	18	33.73	6	42.47	1	46.08	40
11	32.37	35	16.04	29	53.13	19	33.79	8	42.46	1	45.68	41
12	32.72	32	16.33	31	53.32	18	33.87	11	42.45	1	45.27	40
13	33.04	29	16.64	31	53.50	17	33.98	13	42.46	2	44.87	39
14	33.33	27	16.95	32	53.67	16	34.11	12	42.48	2	44.48	36
15	33.60	24	17.27	31	53.83	15	34.23	13	42.50	3	44.12	35
16	33.84	21	17.58	29	53.98	15	34.36	13	42.53	2	43.77	34
17	34.05	21	17.87	28	54.13	14	34.49	11	42.55	2	43.43	32
18	34.26	21	18.15	26	54.27	14	34.60	10	42.57	1	43.11	32
19	34.47	23	18.41	26	54.41	15	34.70	8	42.58	0	42.79	33
20	34.70	24	18.67	25	54.56	15	34.78	8	42.58	0	42.46	33
21	34.94	25	18.92	25	54.71	17	34.86	9	42.58	0	42.13	36
22	35.19	27	19.17	28	54.88	16	34.95	10	42.58	1	41.77	37
23	35.46	28	19.45	29	55.04	16	35.05	12	42.59	2	41.40	39
24	35.74	26	19.74	31	55.20	17	35.17	14	42.61	3	41.01	39
25	36.00	24	20.05	33	55.37	17	35.31	16	42.64	4	40.62	39
26	36.24	22	20.38	34	55.54	16	35.47	17	42.68	4	40.23	39
27	36.46	19	20.72	34	55.70	15	35.64	19	42.72	6	39.84	38
28	36.65	16	21.06	34	55.85	14	35.83	20	42.78	5	39.46	35
29	36.81	13	21.40	32	55.99	13	36.03	19	42.83	6	39.11	33
30	36.94	11	21.72	32	56.12	13	36.22	19	42.89	6	38.78	31
31	37.05	10	22.04	30	56.25	12	36.41	17	42.95	6	38.47	30
32	37.15		22.34		56.37		36.58		43.01		38.17	
O. K.	$+0^s.43\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.16\cos\varphi$			
U. K.	$-0.43\cos\varphi$				$-0.15\cos\varphi$				$-0.16\cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$. AR.	Diff.	δ Ursae minoris. Dekl.	Diff.	λ Ursae minoris. $6^m.8$. AR.	Diff.	λ Ursae minoris. Dekl.	Diff.	76 Draconis. $6^m.0$. AR.	Diff.	76 Draconis. Dekl.	Diff.
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 7^m$		$+89°\ 0'$		$20^h\ 48^m$		$+82°\ 12'$	
Jan. 1	18.91	4	40.13	34	21.44	50	28.69	29	51.09	11	25.77	20
2	18.87	4	39.79	35	20.94	54	28.40	30	50.98	11	25.57	22
3	18.83	2	39.44	37	20.40	54	28.10	31	50.87	12	25.35	25
4	18.81	1	39.07	38	19.86	50	27.79	34	50.75	12	25.10	26
5	18.80	2	38.69	39	19.36	44	27.45	35	50.63	11	24.84	29
6	18.82	6	38.30	37	18.92	36	27.10	37	50.52	10	24.55	30
					18.56	27	26.73	37				
7	18.88	7	37.93	37	18.29	17	26.36	36	50.42	10	24.25	32
8	18.95	9	37.56	35	18.12	11	26.00	35	50.32	9	23.93	31
9	19.04	10	37.21	33	18.01	5	25.65	33	50.23	7	23.62	32
10	19.14	10	36.88	31	17.96	3	25.32	31	50.16	6	23.30	30
11	19.24	10	36.57	30	17.93	3	25.01	30	50.10	6	23.00	29
12	19.34	8	36.27	29	17.90	6	24.71	29	50.04	5	22.71	29
13	19.42	8	35.98	29	17.84	10	24.42	30	49.99	6	22.42	27
14	19.50	8	35.69	31	17.74	14	24.12	31	49.93	7	22.15	26
15	19.58	7	35.38	32	17.60	15	23.81	32	49.86	7	21.89	27
16	19.65	8	35.06	33	17.45	14	23.49	34	49.79	7	21.62	29
17	19.73	9	34.73	35	17.31	9	23.15	35	49.72	7	21.33	30
18	19.82	11	34.38	36	17.22	2	22.80	36	49.65	8	21.03	32
19	19.93	14	34.02	36	17.20	6	22.44	37	49.57	7	20.71	34
20	20.07	17	33.66	34	17.26	14	22.07	37	49.50	6	20.37	35
21	20.24	19	33.32	33	17.40	22	21.70	36	49.44	5	20.02	36
22	20.43	19	32.99	32	17.62	28	21.34	34	49.39	4	19.66	35
23	20.62	20	32.67	29	17.90	30	21.00	32	49.35	3	19.31	35
24	20.82	19	32.38	27	18.20	31	20.68	31	49.32	2	18.96	33
25	21.01	18	32.11	27	18.51	29	20.37	28	49.30	2	18.63	31
26	21.19	17	31.84	25	18.80	25	20.09	28	49.28	1	18.32	31
27	21.36	16	31.59	26	19.05	20	19.81	29	49.27	2	18.01	29
28	21.52	15	31.33	27	19.25	16	19.52	29	49.25	3	17.72	29
29	21.67	15	31.06	28	19.41	15	19.23	30	49.22	4	17.43	29
30	21.82	15	30.78	30	19.56	17	18.93	32	49.18	4	17.14	31
									49.14	4	16.83	31
31	21.97	18	30.48	31	19.73	22	18.61	33	49.10	3	16.52	34
Febr. 1	22.15	20	30.17	31	19.95	29	18.28	34	49.07	3	16.18	35
2	22.35	22	29.86	31	20.24	38	17.94	35	49.04	2	15.83	36
3	22.57	24	29.55	29	20.62	47	17.59	35	49.02	0	15.47	37
4	22.81	26	29.26	28	21.09	55	17.24	33	49.02	1	15.10	36
5	23.07		28.98		21.64		16.91		49.03		14.74	
O. K.	$+ 0^s.36 \cos\varphi$				$+ 1^s.23 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. K.	$- 0.36 \cos\varphi$				$- 1.23 \cos\varphi$				$- 0.16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$. AR.		Dekl.		λ Ursae minoris. $6^m.8$. AR.		Dekl.		76 Draconis. $6^m.0$. AR.		Dekl.	
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 7^m$		$+89°\ 0'$		$20^h\ 48^m$		$+82°\ 12'$	
Febr. 5	$23^s.07$	28	$28''.98$	25	$21^s.64$	61	$16''.91$	30	$49^s.03$	1	$14''.74$	35
6	23.35	28	28.73	24	22.25	64	16.61	28	49.04	3	14.39	34
7	23.63	27	28.49	21	22.89	64	16.33	27	49.07	3	14.05	32
8	23.90	26	28.28	20	23.53	62	16.06	26	49.10	2	13.73	31
9	24.16	26	28.08	21	24.15	58	15.80	25	49.12	1	13.42	30
10	24.42	24	27.87	20	24.73	54	15.55	25	49.13	2	13.12	29
11	24.66	24	27.67	21	25.27	51	15.30	26	49.15	2	12.83	30
12	24.90	24	27.46	22	25.78	51	15.04	27	49.17	1	12.53	31
13	25.14	25	27.24	24	26.29	54	14.77	29	49.18	1	12.22	33
14	25.39	27	27.00	24	26.83	58	14.48	30	49.19	1	11.89	35
15	25.66	29	26.76	25	27.41	66	14.18	31	49.20	2	11.54	35
16	25.95	31	26.51	24	28.07	74	13.87	30	49.22	3	11.19	36
17	26.26	32	26.27	23	28.81	82	13.57	29	49.25	4	10.83	36
18	26.58	34	26.04	20	29.63	88	13.28	27	49.29	5	10.47	35
19	26.92	35	25.84	18	30.51	91	13.01	25	49.34	6	10.12	34
20	27.27	34	25.66	16	31.42	92	12.76	24	49.40	7	9.78	31
21	27.61	33	25.50	13	32.34	90	12.52	21	49.47	6	9.47	29
22	27.94	30	25.37	13	33.24	86	12.31	20	49.53	6	9.18	27
23	28.24	30	25.24	13	34.10	80	12.11	19	49.59	6	8.91	27
24	28.54	28	25.11	13	34.90	76	11.92	20	49.65	6	8.64	26
25	28.82	28	24.98	14	35.66	73	11.72	20	49.71	5	8.38	27
26	29.10	28	24.84	16	36.39	72	11.52	22	49.76	4	8.11	28
27	29.38	29	24.68	16	37.11	75	11.30	22	49.80	5	7.83	30
28	29.67	31	24.52	17	37.86	81	11.08	24	49.85	5	7.53	31
29	29.98	33	24.35	16	38.67	89	10.84	24	49.90	6	7.22	32
März 1	30.31	35	24.19	16	39.56	96	10.60	23	49.96	7	6.90	33
2	30.66	37	24.03	13	40.52	104	10.37	22	50.03	9	6.57	32
3	31.03	38	23.90	11	41.56	110	10.15	21	50.12	9	6.25	31
4	31.41	38	23.79	9	42.66	113	9.94	18	50.21	9	5.94	28
5	31.79	37	23.70	7	43.79	114	9.76	15	50.30	11	5.66	26
6	32.16	36	23.63	5	44.93	111	9.61	13	50.41	11	5.40	25
7	32.52	35	23.58	4	46.04	106	9.48	13	50.52	10	5.15	24
8	32.87	33	23.54	5	47.10	101	9.35	13	50.62	10	4.91	22
9	33.20	32	23.49	5	48.11	97	9.22	12	50.72	9	4.69	23
10	33.52	32	23.44	6	49.08	95	9.10	14	50.81	9	4.46	23
11	33.84	32	23.38	7	50.03	96	8.96	15	50.90	9	4.23	24
12	34.16	34	23.31	8	50.99	99	8.81	16	50.99	9	3.99	26
13	34.50		23.23		51.98		8.65		51.08		3.73	
O. K.	$+0^s.36 \cos\varphi$				$+1^s.23 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. K.	$-0.36 \cos\varphi$				$-1.23 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$. AR.		Dekl.		λ Ursae minoris. $6^m.8$. AR.		Dekl.		76 Draconis. $6^m.0$. AR.		Dekl.	
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 7^m$		$+89°\ 0'$		$20^h\ 48^m$		$+82°\ 11'$	
März 13	$34^s.50$	35	$23''.23$	8	$51^s.98$	104	$8''.65$	17	$51^s.08$	9	$63''.73$	27
14	34.85	37	23.15	8	53.02	110	8.48	17	51.17	10	63.46	26
15	35.22	38	23.07	6	54.12	117	8.31	16	51.27	11	63.20	27
16	35.60	40	23.01	5	55.29	124	8.15	13	51.38	12	62.93	26
17	36.00	40	22.96	2	56.53	128	8.02	12	51.50	12	62.67	24
18	36.40	40	22.94	1	57.81	127	7.90	10	51.62	14	62.43	22
19	36.80	38	22.95	2	59.08	125	7.80	7	51.76	14	62.21	20
20	37.18	36	22.97	4	60.33	120	7.73	5	51.90	13	62.01	17
21	37.54	34	23.01	5	61.53	115	7.68	5	52.03	13	61.84	17
22	37.88	32	23.06	4	62.68	108	7.63	4	52.16	12	61.67	15
23	38.20	32	23.10	4	63.76	103	7.59	4	52.28	11	61.52	15
24	38.52	30	23.14	2	64.79	100	7.55	5	52.39	12	61.37	16
25	38.82	32	23.16	1	65.79	101	7.50	7	52.51	11	61.21	18
26	39.14	32	23.17	1	66.80	104	7.43	8	52.62	11	61.03	18
27	39.46	34	23.18	1	67.84	110	7.35	8	52.73	11	60.85	18
28	39.80	35	23.19	1	68.94	117	7.27	8	52.84	13	60.67	19
29	40.15	37	23.20	3	70.11	123	7.19	7	52.97	13	60.48	19
30	40.52	38	23.23	5	71.34	128	7.12	4	53.10	15	60.29	18
31	40.90	39	23.28	8	72.62	131	7.08	3	53.25	16	60.11	15
April 1	41.29	37	23.36	10	73.93	132	7.05	0	53.41	16	59.96	14
2	41.66	37	23.46	11	75.25	129	7.05	2	53.57	16	59.82	12
3	42.03	34	23.57	13	76.54	124	7.07	3	53.73	16	59.70	10
4	42.37	33	23.70	13	77.78	117	7.10	5	53.89	15	59.60	9
5	42.70	31	23.83	13	78.95	112	7.15	4	54.04	14	59.51	7
6	43.01	29	23.96	12	80.07	108	7.19	3	54.18	13	59.44	8
7	43.30	30	24.08	10	81.15	105	7.22	2	54.31	14	59.36	10
8	43.60	30	24.18	10	82.20	106	7.24	1	54.45	13	59.26	11
9	43.90	31	24.28	9	83.26	109	7.25	1	54.58	14	59.15	11
10	44.21	33	24.37	8	84.35	115	7.26	0	54.72	14	59.04	12
11	44.54	34	24.45	9	85.50	121	7.26	1	54.86	15	58.92	12
12	44.88	36	24.54	12	86.71	126	7.27	2	55.01	15	58.80	12
13	45.24	35	24.66	14	87.97	128	7.29	4	55.16	16	58.68	10
14	45.59	35	24.80	16	89.25	129	7.33	6	55.32	17	58.58	7
15	45.94	32	24.96	18	90.54	127	7.39	9	55.49	17	58.51	6
16	46.26	32	25.14	20	91.81	123	7.48	11	55.66	17	58.45	3
17	46.58	30	25.34	21	93.04	115	7.59	12	55.83	17	58.42	0
18	46.88	27	25.55	20	94.19	107	7.71	13	56.00	16	58.42	1
19	47.15		25.75		95.26		7.84		56.16		58.43	
O. K.	$+ 0^s.36 \cos\varphi$				$+ 1^s.22 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. K.	$- 0.36 \cos\varphi$				$- 1.22 \cos\varphi$				$- 0.16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. 4m.3.				λ Ursae minoris. 6m.8.				76 Draconis. 6m.0.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	18h 0m		+86° 36′		19h 8m		+89° 0′		20h 48m		+82° 11′	
	s		″		s		″		s		″	
April 19	47.15	25	25.75	19	35.26	100	7.84	12	56.16	15	58.43	1
20	47.40	23	25.94	19	36.26	95	7.96	11	56.31	14	58.44	1
21	47.63	24	26.13	17	37.21	94	8.07	11	56.45	14	58.45	1
22	47.87	24	26.30	17	38.15	94	8.18	9	56.59	14	58.44	1
23	48.11	25	26.47	16	39.09	98	8.27	9	56.73	14	58.43	2
24	48.36	27	26.63	16	40.07	103	8.36	8	56.87	15	58.41	2
25	48.63	28	26.79	18	41.10	108	8.44	10	57.02	15	58.39	2
26	48.91	29	26.97	19	42.18	114	8.54	10	57.17	16	58.37	2
27	49.20	29	27.16	21	43.32	116	8.64	13	57.33	16	58.35	0
28	49.49	28	27.37	23	44.48	116	8.77	15	57.49	18	58.35	2
29	49.77	28	27.60	25	45.64	114	8.92	17	57.67	18	58.37	5
30	50.05	25	27.85	27	46.78	109	9.09	19	57.85	17	58.42	8
Mai 1	50.30	23	28.12	27	47.87	102	9.28	20	58.02	16	58.50	8
2	50.53	21	28.39	27	48.89	94	9.48	20	58.18	15	58.58	8
3	50.74	19	28.66	25	49.83	88	9.68	19	58.33	16	58.66	10
4	50.93	18	28.91	24	50.71	83	9.87	18	58.49	15	58.76	9
5	51.11	19	29.15	24	51.54	82	10.05	17	58.64	13	58.85	7
6	51.30	19	29.39	21	52.36	84	10.22	16	58.77	14	58.92	6
7	51.49	20	29.60	21	53.20	88	10.38	15	58.91	15	58.98	5
8	51.69	22	29.81	23	54.08	92	10.53	15	59.06	15	59.03	5
9	51.91	22	30.04	23	55.00	97	10.68	17	59.21	15	59.08	5
10	52.13	23	30.27	25	55.97	99	10.85	18	59.36	16	59.13	7
11	52.36	23	30.52	27	56.96	101	11.03	20	59.52	16	59.20	8
12	52.59	21	30.79	29	57.97	99	11.23	22	59.68	17	59.28	11
13	52.80	19	31.08	30	58.96	93	11.45	24	59.85	17	59.39	13
14	52.99	16	31.38	32	59.89	85	11.69	26	60.02	16	59.52	15
15	53.15	14	31.70	32	60.74	77	11.95	27	60.18	16	59.67	17
16	53.29	12	32.02	31	61.51	69	12.22	26	60.34	15	59.84	17
17	53.41	10	32.33	30	62.20	63	12.48	25	60.49	13	60.01	18
18	53.51	9	32.63	27	62.83	59	12.73	24	60.62	12	60.19	17
19	53.60	9	32.90	27	63.42	57	12.97	23	60.74	12	60.36	15
20	53.69	11	33.17	25	63.99	58	13.20	22	60.86	13	60.51	15
21	53.80	11	33.42	26	64.57	62	13.42	22	60.99	12	60.66	14
22	53.91	12	33.68	26	65.19	67	13.64	21	61.11	13	60.80	14
23	54.03	14	33.94	27	65.86	72	13.85	22	61.24	15	60.94	14
24	54.17	13	34.21	29	66.58	75	14.07	24	61.39	15	61.08	15
25	54.30	14	34.50	31	67.33	76	14.31	26	61.54	15	61.23	17
26	54.44		34.81		68.09		14.57		61.69		61.40	
O. K.	+ 0s.36 cos φ				+ 1s.23 cos φ				+ 0s.16 cos φ			
U. K.	— 0 .36 cos φ				— 1 .23 cos φ				— 0 .16 cos φ			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$.				λ Ursae minoris. $6^m.8$.				76 Draconis. $6^m.0$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 9^m$		$+89°\ 0'$		$20^h\ 49^m$		$+82°\ 12'$	
Mai 26	$54^s.44$	12	$34''.81$	33	$8^s.09$	73	$14''.57$	29	$1^s.69$	15	$1''.40$	19
27	54.56	10	35.14	34	8.82	67	14.86	30	1.84	14	1.59	21
28	54.66	8	35.48	35	9.49	60	15.16	31	1.98	15	1.80	23
29	54.74	5	35.83	35	10.09	53	15.47	31	2.13	13	2.03	25
30	54.79	4	36.18	33	10.62	46	15.78	30	2.26	13	2.28	25
31	54.83	3	36.51	32	11.08	40	16.08	30	2.39	12	2.53	24
Juni 1	54.86	2	36.83	29	11.48	36	16.38	29	2.51	10	2.77	23
2	54.88	1	37.12	29	11.84	35	16.67	26	2.61	10	3.00	21
3	54.89	4	37.41	28	12.19	38	16.93	25	2.71	11	3.21	21
4	54.93	4	37.69	28	12.57	42	17.18	25	2.82	12	3.42	19
5	54.97	6	37.97	28	12.99	47	17.43	26	2.94	12	3.61	19
6	55.03	6	38.25	30	13.46	50	17.69	26	3.06	12	3.80	21
7	55.09	5	38.55	31	13.96	50	17.95	29	3.18	13	4.01	22
8	55.14	5	38.86	33	14.46	49	18.24	31	3.31	12	4.23	24
9	55.19	3	39.19	35	14.95	45	18.55	32	3.43	13	4.47	27
10	55.22	0	39.54	35	15.40	38	18.87	35	3.56	13	4.74	28
11	55.22	2	39.89	36	15.78	29	19.22	34	3.69	12	5.02	29
12	55.20	5	40.25	36	16.07	20	19.56	35	3.81	10	5.31	31
13	55.15	7	40.61	34	16.27	13	19.91	33	3.91	9	5.62	30
14	55.08	8	40.95	32	16.40	6	20.24	32	4.00	8	5.92	30
15	55.00	8	41.27	30	16.46	3	20.56	31	4.08	8	6.22	29
16	54.92	7	41.57	29	16.49	4	20.87	29	4.16	8	6.51	28
17	54.85	7	41.86	28	16.53	6	21.16	28	4.24	8	6.79	27
18	54.78	6	42.14	28	16.59	11	21.44	28	4.32	8	7.06	26
19	54.72	4	42.42	29	16.70	15	21.72	29	4.40	8	7.32	26
20	54.68	3	42.71	29	16.85	19	22.01	30	4.48	10	7.58	27
21	54.65	4	43.00	32	17.04	19	22.31	31	4.58	10	7.85	28
22	54.61	5	43.32	34	17.23	19	22.62	33	4.68	9	8.13	29
23	54.56	7	43.66	34	17.42	14	22.95	35	4.77	10	8.42	32
24	54.49	9	44.00	36	17.56	6	23.30	36	4.87	9	8.74	34
25	54.40	12	44.36	35	17.62	− 1	23.66	37	4.96	9	9.08	34
26	54.28	13	44.71	34	17.61	9	24.03	36	5.05	7	9.42	34
27	54.15	15	45.05	33	17.52	15	24.39	34	5.12	6	9.76	35
28	54.00	15	45.38	30	17.37	20	24.73	33	5.18	6	10.11	34
29	53.85	16	45.68	29	17.17	23	25.06	31	5.24	5	10.45	32
30	53.69	14	45.97	28	16.94	21	25.37	30	5.29	5	10.77	30
Juli 1	53.55	14	46.25	27	16.73	17	25.67	29	5.34	5	11.07	30
2	53.41		46.52		16.56		25.96		5.39		11.37	
O. K.	$+ 0^s.36 \cos\varphi$				$+ 1^s.23 \cos\varphi$				$+ 0^s.16 \cos\varphi$			
U. K.	$- 0.36 \cos\varphi$				$- 1.23 \cos\varphi$				$- 0.16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$. AR.	Diff.	Dekl.	Diff.	λ Ursae minoris. $6^m.8$. AR.	Diff.	Dekl.	Diff.	76 Draconis. $6^m.0$. AR.	Diff.	Dekl.	Diff.
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 8^m$		$+89°\ 0'$		$20^h\ 49^m$		$+82°\ 12'$	
Juli 2	$53^s.41$		$46''.52$		$76^s.56$		$25''.96$		$5^s.39$		$11''.37$	
3	53.29	12	46.78	26	76.43	13	26.24	28	5.45	6	11.65	28
4	53.18	11	47.05	27	76.33	10	26.53	29	5.50	5	11.94	29
5	53.07	11	47.34	29	76.26	7	26.84	31	5.56	6	12.25	31
6	52.95	12	47.65	31	76.18	8	27.17	33	5.63	7	12.57	32
7	52.81	14	47.97	32	76.07	11	27.51	34	5.70	7	12.91	34
8	52.65	16	48.31	34	75.90	17	27.86	35	5.76	6	13.27	36
9	52.47	18	48.64	33	75.65	25	28.23	37	5.82	6	13.64	37
10	52.26	21	48.96	32	75.30	35	28.59	36	5.86	4	14.02	38
11	52.03	23	49.28	32	74.86	44	28.95	36	5.89	3	14.41	39
12	51.78	25	49.58	30	74.36	50	29.29	34	5.92	3	14.79	38
13	51.54	24	49.86	28	73.82	54	29.62	33	5.93	1	15.16	37
14	51.29	25	50.11	25	73.27	55	29.93	31	5.94	1	15.51	35
15	51.05	24	50.36	25	72.74	53	30.21	28	5.95	1	15.85	34
16	50.82	23	50.60	24	72.24	50	30.50	29	5.96	1	16.18	33
17	50.61	21	50.83	23	71.79	45	30.78	28	5.98	2	16.49	31
18	50.40	21	51.08	25	71.39	40	31.08	30	6.01	3	16.81	32
19	50.21	19	51.34	26	71.00	39	31.38	30	6.04	3	17.14	33
20	50.01	20	51.63	29	70.61	39	31.70	32	6.06	2	17.48	34
21	49.79	22	51.92	29	70.19	42	32.04	34	6.09	3	17.84	36
22	49.55	24	52.22	30	69.71	48	32.39	35	6.12	3	18.23	39
23	49.29	26	52.52	30	69.16	55	32.74	35	6.14	2	18.62	39
24	49.01	28	52.81	29	68.53	63	33.08	34	6.14	0	19.02	40
25	48.71	30	53.08	27	67.83	70	33.42	34	6.14	0	19.41	39
26	48.40	31	53.34	26	67.07	76	33.74	32	6.13	1	19.79	38
27	48.09	31	53.57	23	66.29	78	34.04	30	6.10	3	20.17	38
28	47.78	31	53.78	21	65.51	78	34.32	28	6.08	2	20.52	35
29	47.48	30	53.98	20	64.76	75	34.60	28	6.06	2	20.85	33
30	47.21	27	54.18	20	64.06	70	34.85	25	6.05	1	21.18	33
31	46.94	27	54.38	20	63.40	66	35.11	26	6.04	1	21.50	32
Aug. 1	46.68	26	54.59	21	62.76	64	35.39	28	6.03	1	21.82	32
2	46.42	26	54.82	23	62.13	63	35.67	28	6.02	1	22.16	34
3	46.15	27	55.07	25	61.49	64	35.97	30	6.02	0	22.51	35
4	45.86	29	55.32	25	60.80	69	36.29	32	6.02	0	22.88	37
5	45.55	31	55.58	26	60.03	77	36.62	33	6.00	2	23.27	39
6	45.22	33	55.83	25	59.18	85	36.94	32	5.98	2	23.67	40
7	44.86	36	56.07	24	58.25	93	37.26	32	5.95	3	24.07	40
8	44.48	38	56.29	22	57.25	100	37.56	30	5.90	5	24.47	40
O. K.	$+0^s.36 \cos\varphi$				$+1^s.23 \cos\varphi$				$+0^s.16 \cos\varphi$			
U. K.	$-0.36 \cos\varphi$				$-1.23 \cos\varphi$				$-0.16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$.				λ Ursae minoris. $6^m.8$.				76 Draconis. $6^m.0$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$18^h\ 0^m$		+86° 36′		$19^h\ 8^m$		+89° 0′		$20^h\ 49^m$		+82° 12′	
Aug. 8	44.48	38	56.29	19	57.25	106	37.56	29	5.90	6	24.47	38
9	44.10	38	56.48	18	56.19	108	37.85	27	5.84	6	24.85	37
10	43.72	37	56.66	17	55.11	106	38.12	26	5.78	6	25.22	35
11	43.35	36	56.83	15	54.05	103	38.38	24	5.72	6	25.57	34
12	42.99	35	56.98	15	53.02	97	38.62	23	5.66	5	25.91	32
13	42.64	34	57.13	15	52.05	93	38.85	22	5.61	5	26.23	33
14	42.30	32	57.28	17	51.12	90	39.07	24	5.56	5	26.56	33
15	41.98	33	57.45	18	50.22	88	39.31	26	5.51	4	26.89	34
16	41.65	33	57.63	19	49.34	91	39.57	28	5.47	4	27.23	36
17	41.32	35	57.82	21	48.43	95	39.85	28	5.43	5	27.59	36
18	40.97	37	58.03	20	47.48	101	40.13	29	5.38	5	27.95	38
19	40.60	38	58.23	19	46.47	107	40.42	29	5.33	5	28.33	39
20	40.22	41	58.42	18	45.40	116	40.71	27	5.28	7	28.72	38
21	39.81	42	58.60	16	44.24	122	40.98	26	5.21	8	29.10	37
22	39.39	42	58.76	14	43.02	124	41.24	24	5.13	8	29.47	35
23	38.97	42	58.90	11	41.78	124	41.48	22	5.05	10	29.82	33
24	38.55	40	59.01	11	40.54	122	41.70	20	4.95	9	30.15	32
25	38.15	39	59.12	9	39.32	118	41.90	19	4.86	9	30.47	31
26	37.76	38	59.21	9	38.14	112	42.09	18	4.77	9	30.78	30
27	37.38	36	59.30	10	37.02	109	42.27	19	4.68	7	31.08	29
28	37.02	35	59.40	11	35.93	106	42.46	20	4.61	8	31.37	30
29	36.67	36	59.51	12	34.87	106	42.66	21	4.53	7	31.67	32
30	36.31	37	59.63	14	33.81	109	42.87	23	4.46	7	31.99	33
31	35.94	39	59.77	15	32.72	115	43.10	24	4.39	7	32.32	35
Sept. 1	35.55	41	59.92	14	31.57	123	43.34	24	4.32	9	32.67	36
2	35.14	44	60.06	13	30.34	131	43.58	24	4.23	10	33.03	37
3	34.70	45	60.19	11	29.03	138	43.82	22	4.13	11	33.40	35
4	34.25	46	60.30	9	27.65	143	44.04	20	4.02	11	33.75	35
5	33.79	47	60.39	7	26.22	146	44.24	19	3.91	12	34.10	33
6	33.32	45	60.46	5	24.76	146	44.43	16	3.79	13	34.43	31
7	32.87	44	60.51	4	23.30	142	44.59	15	3.66	13	34.74	29
8	32.43	42	60.55	3	21.88	137	44.74	14	3.53	12	35.03	29
9	32.01	41	60.58	2	20.51	131	44.88	13	3.41	12	35.32	27
10	31.60	40	60.60	4	19.20	127	45.01	15	3.29	10	35.59	27
11	31.20	39	60.64	6	17.93	124	45.16	15	3.19	11	35.86	28
12	30.81	39	60.70	7	16.69	124	45.31	17	3.08	10	36.14	28
13	30.42	41	60.77	8	15.45	127	45.48	17	2.98	10	36.42	30
14	30.01		60.85		14.18		45.65		2.88		36.72	
O. K.	+ $0^s.36 \cos \varphi$				+ $1^s.24 \cos \varphi$				+ $0^s.16 \cos \varphi$			
U. K.	— $0\ .36 \cos \varphi$				— $1\ .24 \cos \varphi$				— $0\ .16 \cos \varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$.				λ Ursae minoris. $6^m.8$.				76 Draconis. $6^m.0$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 7^m$		$+89°\ 0'$		$20^h\ 48^m$		$+82°\ 12'$	
Sept. 14	$30^s.01$	42	$60''.85$	8	$74^s.18$	132	$45''.65$	19	$62^s.88$	11	$36''.72$	32
15	29.59	44	60.93	7	72.86	138	45.84	19	62.77	11	37.04	31
16	29.15	46	61.00	6	71.48	144	46.03	17	62.66	13	37.35	32
17	28.69	46	61.06	4	70.04	150	46.20	15	62.53	14	37.67	31
18	28.23	48	61.10	1	68.54	154	46.35	14	62.39	14	37.98	29
19	27.75	46	61.11	0	67.00	155	46.49	12	62.25	14	38.27	27
20	27.29	46	61.11	2	65.45	153	46.61	9	62.11	15	38.54	25
21	26.83	43	61.09	4	63.92	148	46.70	8	61.96	15	38.79	23
22	26.40	42	61.05	3	62.44	142	46.78	8	61.81	14	39.02	22
23	25.98	40	61.02	4	61.02	137	46.86	7	61.67	13	39.24	22
24	25.58	39	60.98	2	59.65	133	46.93	8	61.54	13	39.46	22
25	25.19	39	60.96	1	58.32	131	47.01	10	61.41	13	39.68	23
26	24.80	40	60.95	0	57.01	132	47.11	11	61.28	12	39.91	24
27	24.40	41	60.95	1	55.69	137	47.22	11	61.16	12	40.15	25
28	23.99	44	60.96	1	54.32	142	47.33	12	61.04	14	40.40	27
29	23.55	46	60.97	0	52.90	150	47.45	12	60.90	14	40.67	27
30	23.09	46	60.97	1	51.40	157	47.57	12	60.76	15	40.94	27
Okt. 1	22.63	48	60.96	3	49.83	162	47.69	9	60.61	16	41.21	26
2	22.15	48	60.93	6	48.21	165	47.78	7	60.45	17	41.47	24
3	21.67	48	60.87	7	46.56	166	47.85	5	60.28	17	41.71	22
4	21.19	46	60.80	10	44.90	162	47.90	3	60.11	18	41.93	20
5	20.73	43	60.70	11	43.28	157	47.93	1	59.93	17	42.13	19
6	20.30	42	60.59	10	41.71	151	47.94	1	59.76	16	42.32	17
7	19.88	41	60.49	10	40.20	145	47.95	1	59.60	16	42.49	16
8	19.47	39	60.39	9	38.75	140	47.96	2	59.44	15	42.65	16
9	19.08	40	60.30	8	37.35	138	47.98	3	59.29	15	42.81	18
10	18.68	39	60.22	6	35.97	138	48.01	5	59.14	14	42.99	19
11	18.29	41	60.16	7	34.59	142	48.06	5	59.00	14	43.18	20
12	17.88	42	60.09	6	33.17	148	48.11	6	58.86	16	43.38	20
13	17.46	44	60.03	6	31.69	153	48.17	5	58.70	16	43.58	21
14	17.02	45	59.97	9	30.16	159	48.22	3	58.54	17	43.79	20
15	16.57	46	59.88	10	28.57	162	48.25	1	58.37	17	43.99	18
16	16.11	44	59.78	13	26.95	163	48.26	−1	58.20	18	44.17	16
17	15.67	43	59.65	15	25.32	161	48.25	3	58.02	18	44.33	14
18	15.24	42	59.50	17	23.71	157	48.22	5	57.84	19	44.47	13
19	14.82	40	59.33	17	22.14	151	48.17	6	57.65	18	44.60	10
20	14.42	38	59.16	17	20.63	144	48.11	6	57.47	17	44.70	9
21	14.04		58.99		19.19		48.05		57.30		44.79	
O. K.	$+\ 0^s.36 \cos\varphi$				$+\ 1^s.24 \cos\varphi$				$+\ 0^s.16 \cos\varphi$			
U. K.	$-\ 0\ .36 \cos\varphi$				$-\ 1\ .24 \cos\varphi$				$-\ 0\ .16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. 4ᵐ.3. AR.		Dekl.		λ Ursae minoris. 6ᵐ.8. AR.		Dekl.		76 Draconis. 6ᵐ.0. AR.		Dekl.	
	$18^h\ 0^m$		$+86°\ 36'$		$19^h\ 6^m$		$+89°\ 0'$		$20^h\ 48^m$		$+82°\ 12'$	
Okt. 21	14.04	36	58.99	17	79.19	138	48.05	6	57.30	16	44.79	9
22	13.68	36	58.82	16	77.81	134	47.99	5	57.14	16	44.88	10
23	13.32	35	58.66	13	76.47	133	47.94	4	56.98	15	44.98	11
24	12.97	36	58.53	13	75.14	136	47.90	2	56.83	15	45.09	12
25	12.61	38	58.40	12	73.78	140	47.88	1	56.68	16	45.21	14
26	12.23	40	58.28	13	72.38	146	47.87	2	56.52	16	45.35	14
27	11.83	41	58.15	14	70.92	153	47.85	4	56.36	17	45.49	14
28	11.42	42	58.01	16	69.39	158	47.81	4	56.19	19	45.63	13
29	11.00	43	57.85	19	67.81	161	47.77	6	56.00	19	45.76	12
30	10.57	41	57.66	19	66.20	161	47.71	8	55.81	19	45.88	9
31	10.16	41	57.47	22	64.59	159	47.63	10	55.62	19	45.97	7
Nov. 1	9.75	38	57.25	24	63.00	153	47.53	12	55.43	19	46.04	5
2	9.37	36	57.01	24	61.47	146	47.41	13	55.24	19	46.09	3
3	9.01	34	56.77	23	60.01	138	47.28	13	55.05	18	46.12	2
4	8.67	33	56.54	23	58.63	133	47.15	12	54.87	18	46.14	2
5	8.34	31	56.31	20	57.30	129	47.03	12	54.69	16	46.16	3
6	8.03	32	56.11	19	56.01	127	46.91	10	54.53	16	46.19	4
7	7.71	33	55.92	19	54.74	129	46.81	9	54.37	16	46.23	5
8	7.38	33	55.73	18	53.45	133	46.72	10	54.21	16	46.28	6
9	7.05	35	55.55	19	52.12	137	46.62	9	54.05	17	46.34	7
10	6.70	36	55.36	21	50.75	142	46.53	9	53.88	17	46.41	6
11	6.34	35	55.15	23	49.33	145	46.44	12	53.71	19	46.47	4
12	5.99	36	54.92	25	47.88	147	46.32	14	53.52	19	46.51	2
13	5.63	34	54.67	27	46.41	145	46.18	16	53.33	19	46.53	0
14	5.29	32	54.40	28	44.96	140	46.02	18	53.14	18	46.53	2
15	4.97	31	54.12	29	43.56	134	45.84	20	52.96	18	46.51	4
16	4.66	28	53.83	30	42.22	125	45.64	20	52.78	18	46.47	6
17	4.38	26	53.53	29	40.97	118	45.44	21	52.60	17	46.41	7
18	4.12	24	53.24	27	39.79	113	45.23	19	52.43	17	46.34	7
19	3.88	25	52.97	26	38.66	109	45.04	18	52.26	15	46.27	5
20	3.63	24	52.71	25	37.57	109	44.86	17	52.11	15	46.22	4
21	3.39	26	52.46	24	36.48	113	44.69	16	51.96	16	46.18	3
22	3.13	27	52.22	24	35.35	117	44.53	15	51.80	16	46.15	2
23	2.86	28	51.98	24	34.18	122	44.38	16	51.64	16	46.13	2
24	2.58	30	51.74	27	32.96	128	44.22	17	51.48	17	46.11	2
25	2.28	29	51.47	28	31.68	131	44.05	19	51.31	18	46.09	4
26	1.99	29	51.19	30	30.37	131	43.86	21	51.13	19	46.05	6
27	1.70		50.89		29.06		43.65		50.94		45.99	
O. K.	$+\ 0^s.36 \cos\varphi$				$+\ 1^s.24 \cos\varphi$				$+\ 0^s.16 \cos\varphi$			
U. K.	$-\ 0\ .36 \cos\varphi$				$-\ 1\ .24 \cos\varphi$				$-\ 0\ .16 \cos\varphi$			

Obere Kulmination.

1912	δ Ursae minoris. $4^m.3$. AR.		Dekl.		λ Ursae minoris. $6^m.8$. AR.		Dekl.		76 Draconis. $6^m.0$. AR.		Dekl.	
	$17^h\ 59^m$		$+86°\ 36'$		$19^h\ 6^m$		$+89°\ 0'$		$20^h\ 48^m$		$+82°\ 12'$	
Nov. 27	$61^s.70$	28	$50''.89$	32	$29^s.06$	128	$43''.65$	23	$50^s.94$	19	$45''.99$	8
28	61.42	25	50.57	33	27.78	123	43.42	25	50.75	18	45.91	9
29	61.17	24	50.24	34	26.55	115	43.17	25	50.57	17	45.82	12
30	60.93	21	49.90	33	25.40	107	42.92	27	50.40	16	45.70	13
Dez. 1	60.72	19	49.57	33	24.33	100	42.65	26	50.24	16	45.57	14
2	60.53	17	49.24	32	23.33	94	42.39	24	50.08	15	45.43	13
3	60.36	17	48.92	30	22.39	90	42.15	24	49.93	14	45.30	12
4	60.19	17	48.62	28	21.49	89	41.91	22	49.79	14	45.18	11
5	60.02	18	48.34	28	20.60	92	41.69	21	49.65	14	45.07	10
6	59.84	19	48.06	28	19.68	95	41.48	21	49.51	15	44.97	10
7	59.65	20	47.78	29	18.73	99	41.27	22	49.36	15	44.87	10
8	59.45	21	47.49	30	17.74	102	41.05	24	49.21	15	44.77	10
9	59.24	20	47.19	32	16.72	103	40.81	25	49.06	16	44.67	13
10	59.04	19	46.87	35	15.69	102	40.56	27	48.90	17	44.54	15
11	58.85	17	46.52	36	14.67	98	40.29	30	48.73	17	44.39	17
12	58.68	14	46.16	37	13.69	91	39.99	31	48.56	15	44.22	20
13	58.54	12	45.79	37	12.78	82	39.68	31	48.41	15	44.02	21
14	58.42	10	45.42	36	11.96	73	39.37	32	48.26	14	43.81	22
15	58.32	7	45.06	36	11.23	66	39.05	30	48.12	13	43.59	22
16	58.25	8	44.70	34	10.57	62	38.75	30	47.99	12	43.37	21
17	58.17	7	44.36	32	9.95	60	38.45	29	47.87	11	43.16	20
18	58.10	7	44.04	31	9.35	60	38.16	26	47.76	11	42.96	19
19	58.03	8	43.73	30	8.75	62	37.90	26	47.65	12	42.77	17
20	57.95	10	43.43	30	8.13	67	37.64	26	47.53	12	42.60	18
21	57.85	11	43.13	31	7.46	72	37.38	26	47.41	13	42.42	17
	57.74	11	42.82	32								
22	57.63	12	42.50	35	6.74	76	37.12	28	47.28	14	42.25	19
23	57.51	10	42.15	36	5.98	77	36.84	29	47.14	14	42.06	19
24	57.41	8	41.79	38	5.21	74	36.55	32	47.00	14	41.87	22
25	57.33	5	41.41	38	4.47	69	36.23	34	46.86	14	41.65	24
26	57.28	2	41.03	39	3.78	61	35.89	35	46.72	13	41.41	25
27	57.26	0	40.64	37	3.17	53	35.54	35	46.59	12	41.16	27
28	57.26	1	40.27	36	2.64	44	35.19	34	46.47	11	40.89	28
29	57.27	2	39.91	34	2.20	37	34.85	34	46.36	10	40.61	27
30	57.29	2	39.57	32	1.83	32	34.51	32	46.26	9	40.34	26
31	57.31	2	39.25	30	1.51	28	34.19	30	46.17	9	40.08	25
32	57.33		38.95		1.23		33.89		46.08		39.83	
O. K.	$+0^s.36\cos\varphi$				$+1^s.24\cos\varphi$				$+0^s.16\cos\varphi$			
U. K.	$-0.36\cos\varphi$				$-1.24\cos\varphi$				$-0.16\cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6^m.				ζ Octantis. $6^m - 5^m$.				ι Octantis. $6^m - 5^m$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$1^h\ 42^m$		$-85°\ 13'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
	s		"		s		"		s		"	
Jan. 1	32.19	30	10.91	1	49.12	11	24.16	38	31.01	27	22.81	13
2	31.89	29	10.90	3	49.23	9	24.54	37	31.28	26	22.94	15
3	31.60	27	10.87	4	49.32	8	24.91	36	31.54	24	23.09	15
4	31.33	26	10.83	4	49.40	8	25.27	34	31.78	23	23.24	15
5	31.07	25	10.79	4	49.48	7	25.61	32	32.01	23	23.39	14
6	30.82	24	10.75	3	49.55	8	25.93	32	32.24	22	23.53	12
7	30.58	24	10.72	2	49.63	8	26.25	31	32.46	23	23.65	11
8	30.34	25	10.70	1	49.71	10	26.56	32	32.69	24	23.76	11
9	30.09	25	10.69	0	49.81	10	26.88	33	32.93	24	23.87	11
10	29.84	27	10.69	0	49.91	11	27.21	35	33.17	26	23.98	12
11	29.57	28	10.69	1	50.02	11	27.56	36	33.43	27	24.10	12
12	29.29	30	10.68	2	50.13	10	27.92	38	33.70	27	24.22	15
13	28.99	29	10.66	5	50.23	7	28.30	40	33.97	27	24.37	17
14	28.70	30	10.61	6	50.30	7	28.70	40	34.24	26	24.54	19
15	28.40	30	10.55	9	50.37	5	29.10	40	34.50	25	24.73	21
16	28.10	28	10.46	10	50.42	3	29.50	39	34.75	24	24.94	21
17	27.82	26	10.36	11	50.45	1	29.89	37	34.99	23	25.15	21
18	27.56	26	10.25	12	50.46	2	30.26	36	35.22	21	25.36	21
19	27.30	24	10.13	11	50.48	2	30.62	34	35.43	21	25.57	20
20	27.06	24	10.02	10	50.50	2	30.96	34	35.64	20	25.77	20
21	26.82	24	9.92	9	50.52	3	31.30	33	35.84	21	25.97	19
22	26.58	24	9.83	9	50.55	4	31.63	34	36.05	22	26.16	18
23	26.34	26	9.74	8	50.59	5	31.97	36	36.27	23	26.34	18
24	26.08	27	9.66	9	50.64	4	32.33	38	36.50	24	26.52	20
25	25.81	28	9.57	10	50.68	3	32.71	39	36.74	25	26.72	21
26	25.53	29	9.47	12	50.71	3	33.10	41	36.99	25	26.93	24
27	25.24	29	9.35	14	50.74	1	33.51	43	37.24	25	27.17	25
28	24.95	29	9.21	16	50.75	—2	33.94	43	37.49	24	27.42	28
29	24.66	29	9.05	18	50.73	3	34.37	42	37.73	22	27.70	29
30	24.37	27	8.87	20	50.70	4	34.79	40	37.95	21	27.99	30
31	24.10	25	8.67	20	50.66	6	35.19	39	38.16	19	28.29	30
Febr. 1	23.85	25	8.47	21	50.60	5	35.58	37	38.35	19	28.59	29
2	23.60	23	8.26	19	50.55	6	35.95	36	38.54	18	28.88	28
3	23.37	22	8.07	19	50.49	5	36.31	35	38.72	18	29.16	27
4	23.15	23	7.88	18	50.44	4	36.66	34	38.90	18	29.43	25
5	22.92	23	7.70	16	50.40	3	37.00	36	39.08	19	29.68	25
6	22.69	24	7.54	16	50.37	2	37.36	37	39.27	20	29.93	25
7	22.45		7.38		50.35		37.73		39.47		30.18	
O. K.	$+0^s.26 \cos\varphi$				$+0^s.26 \cos\varphi$				$+0^s.23 \cos\varphi$			
U. K.	$-0.26 \cos\varphi$				$-0.26 \cos\varphi$				$-0.23 \cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6ᵐ. AR.	Diff.	Octantis 4 G. 6ᵐ. Dekl.	Diff.	ζ Octantis. 6ᵐ–5ᵐ. AR.	Diff.	ζ Octantis. 6ᵐ–5ᵐ. Dekl.	Diff.	ι Octantis. 6ᵐ–5ᵐ. AR.	Diff.	ι Octantis. 6ᵐ–5ᵐ. Dekl.	Diff.
	$1^h\ 42^m$		$-85°\ 12'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
Febr. 7	$22^s.45$	26	$67''.38$	16	$50^s.35$	1	$37''.73$	38	$39^s.47$	21	$30''.18$	26
8	22.19	27	67.22	18	50.34	3	38.11	39	39.68	21	30.44	29
9	21.92	27	67.04	20	50.31	4	38.50	41	39.89	22	30.73	29
10	21.65	26	66.84	22	50.27	6	38.91	42	40.11	20	31.02	31
11	21.39	27	66.62	23	50.21	7	39.33	41	40.31	20	31.33	34
12	21.12	26	66.39	25	50.14	10	39.74	40	40.51	18	31.67	34
13	20.86	23	66.14	26	50.04	10	40.14	38	40.69	17	32.01	34
14	20.63	22	65.88	27	49.94	12	40.52	37	40.86	15	32.35	34
15	20.41	21	65.61	27	49.82	12	40.89	35	41.01	15	32.69	33
16	20.20	19	65.34	25	49.70	10	41.24	34	41.16	14	33.02	31
17	20.01	20	65.09	24	49.60	11	41.58	33	41.30	14	33.33	31
18	19.81	19	64.85	24	49.49	10	41.91	34	41.44	15	33.64	29
19	19.62	20	64.61	23	49.39	9	42.25	34	41.59	16	33.93	31
20	19.42	22	64.38	22	49.30	8	42.59	36	41.75	17	34.24	31
21	19.20	23	64.16	23	49.22	8	42.95	37	41.92	17	34.55	31
22	18.97	24	63.93	25	49.14	10	43.32	39	42.09	17	34.86	33
23	18.73	24	63.68	26	49.04	10	43.71	39	42.26	18	35.19	36
24	18.49	24	63.42	29	48.94	13	44.10	40	42.44	16	35.55	37
25	18.25	23	63.13	30	48.81	15	44.50	40	42.60	16	35.92	38
26	18.02	22	62.83	33	48.66	16	44.90	39	42.76	14	36.30	40
27	17.80	21	62.50	33	48.50	18	45.29	36	42.90	12	36.70	40
28	17.59	19	62.17	34	48.32	17	45.65	35	43.02	11	37.10	39
29	17.40	16	61.83	33	48.15	18	46.00	33	43.13	10	37.49	37
März 1	17.24	16	61.50	33	47.97	17	46.33	32	43.23	9	37.86	36
2	17.08	16	61.17	31	47.80	16	46.65	31	43.32	10	38.22	34
3	16.92	17	60.86	29	47.64	15	46.96	30	43.42	11	38.56	34
4	16.75	17	60.57	27	47.49	14	47.26	32	43.53	11	38.90	34
5	16.58	18	60.30	28	47.35	13	47.58	33	43.64	13	39.24	34
6	16.40	20	60.02	29	47.22	14	47.91	34	43.77	13	39.58	34
7	16.20	19	59.73	30	47.08	15	48.25	35	43.90	13	39.92	36
8	16.01	19	59.43	32	46.93	16	48.60	36	44.03	12	40.28	39
9	15.82	20	59.11	33	46.77	18	48.96	36	44.15	11	40.67	40
10	15.62	18	58.78	35	46.59	19	49.32	35	44.26	10	41.07	41
11	15.44	17	58.43	36	46.40	21	49.67	33	44.36	9	41.48	41
12	15.27	15	58.07	37	46.19	22	50.00	32	44.45	7	41.89	41
13	15.12	14	57.70	37	45.97	23	50.32	29	44.52	6	42.30	40
14	14.98	12	57.33	36	45.74	22	50.61	28	44.58	5	42.70	39
15	14.86		56.97		45.52		50.89		44.63		43.09	
O. K.	$+\ 0^s.26 \cos\varphi$				$+\ 0^s.26 \cos\varphi$				$+\ 0^s.23 \cos\varphi$			
U. K.	$-\ 0\ .26 \cos\varphi$				$-\ 0\ .26 \cos\varphi$				$+\ 0\ .23 \cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6^m. AR.	Diff.	Dekl.	Diff.	ζ Octantis. $6^m - 5^m$. AR.	Diff.	Dekl.	Diff.	ι Octantis. $6^m - 5^m$. AR.	Diff.	Dekl.	Diff.
	$1^h 42^m$		−85° 12′		$9^h 9^m$		−85° 18′		$12^h 45^m$		−84° 38′	
März 15	$14^s.86$	11	56″.97	35	$45^s.52$	21	50″.89	27	$44^s.63$	5	43″.09	36
16	14.75	11	56.62	33	45.31	20	51.16	26	44.68	5	43.45	36
17	14.64	12	56.29	32	45.11	19	51.42	27	44.73	6	43.81	34
18	14.52	12	55.97	32	44.92	18	51.69	27	44.79	8	44.15	35
19	14.40	14	55.65	32	44.74	18	51.96	29	44.87	8	44.50	35
20	14.26	15	55.33	33	44.56	18	52.25	30	44.95	8	44.85	38
21	14.11	15	55.00	34	44.38	20	52.55	32	45.03	8	45.23	39
22	13.96	15	54.66	36	44.18	21	52.87	32	45.11	7	45.62	41
23	13.81	15	54.30	39	43.97	23	53.19	32	45.18	7	46.03	42
24	13.66	13	53.91	40	43.74	25	53.51	30	45.25	6	46.45	43
25	13.53	12	53.51	41	43.49	26	53.81	29	45.31	3	46.88	43
26	13.41	9	53.10	42	43.23	26	54.10	26	45.34	3	47.31	43
27	13.32	8	52.68	40	42.97	26	54.36	25	45.37	1	47.74	41
28	13.24	8	52.28	39	42.71	27	54.61	23	45.38	1	48.15	39
29	13.16	6	51.89	38	42.44	25	54.84	22	45.39	0	48.54	38
30	13.10	6	51.51	36	42.19	23	55.06	21	45.39	1	48.92	37
31	13.04	8	51.15	36	41.96	22	55.27	22	45.40	1	49.29	35
April 1	12.96	7	50.79	34	41.74	22	55.49	23	45.41	3	49.64	35
2	12.89	9	50.45	35	41.52	23	55.72	23	45.44	3	49.99	36
3	12.80	9	50.10	35	41.29	22	55.95	25	45.47	4	50.35	38
4	12.71	10	49.75	36	41.07	23	56.20	26	45.51	3	50.73	38
5	12.61	10	49.39	38	40.84	24	56.46	27	45.54	3	51.11	40
6	12.51	9	49.01	39	40.60	27	56.73	25	45.57	1	51.51	41
7	12.42	7	48.62	41	40.33	28	56.98	23	45.58	0	51.92	42
8	12.35	6	48.21	42	40.05	28	57.21	21	45.58	2	52.34	41
9	12.29	3	47.79	42	39.77	29	57.42	19	45.56	3	52.75	40
10	12.26	2	47.37	40	39.48	28	57.61	18	45.53	5	53.15	39
11	12.24	1	46.97	40	39.20	28	57.79	15	45.48	5	53.54	37
12	12.23	1	46.57	37	38.92	27	57.94	15	45.43	4	53.91	35
13	12.22	1	46.20	36	38.65	25	58.09	15	45.39	3	54.26	34
14	12.21	1	45.84	35	38.40	25	58.24	16	45.36	3	54.60	34
15	12.20	3	45.49	35	38.15	24	58.40	16	45.33	2	54.94	34
16	12.17	4	45.14	35	37.91	24	58.56	18	45.31	1	55.28	34
17	12.13	4	44.79	37	37.67	25	58.74	19	45.30	1	55.62	37
	12.09	5	44.42	38								
18	12.04	4	44.04	40	37.42	25	58.93	20	45.29	1	55.99	38
19	12.00	3	43.64	42	37.17	27	59.13	19	45.28	2	56.37	39
20	11.97		43.22		36.90		59.32		45.26		56.76	
O. K.	$+ 0^s.26 \cos \varphi$				$+ 0^s.26 \cos \varphi$				$+ 0^s.23 \cos \varphi$			
U. K.	$- 0.26 \cos \varphi$				$- 0.26 \cos \varphi$				$- 0.23 \cos \varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6^m. AR.	Δ	Octantis 4 G. 6^m. Dekl.	Δ	ζ Octantis. 6^m-5^m. AR.	Δ	ζ Octantis. 6^m-5^m. Dekl.	Δ	ι Octantis. 6^m-5^m. AR.	Δ	ι Octantis. 6^m-5^m. Dekl.	Δ
	$1^h\ 42^m$		$-85°\ 12'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
	s		"		s		"		s		"	
April 20	11.97	2	43.22	42	36.90	30	59.32	19	45.26	4	56.76	40
21	11.95	0	42.80	43	36.60	31	59.51	17	45.22	5	57.16	40
22	11.95	3	42.37	42	36.29	31	59.68	15	45.17	7	57.56	40
23	11.98	3	41.95	41	35.98	31	59.83	12	45.10	9	57.96	39
24	12.01	4	41.54	40	35.67	31	59.95	11	45.01	8	58.35	36
25	12.05	5	41.14	37	35.36	30	60.06	10	44.93	9	58.71	35
26	12.10	5	40.77	36	35.06	28	60.16	9	44.84	9	59.06	33
27	12.15	4	40.41	35	34.78	26	60.25	8	44.75	8	59.39	31
28	12.19	2	40.06	34	34.52	26	60.33	9	44.67	6	59.70	32
29	12.21	2	39.72	34	34.26	25	60.42	11	44.61	6	60.02	32
30	12.23	1	39.38	36	34.01	25	60.53	11	44.55	6	60.34	32
Mai 1	12.24	1	39.02	37	33.76	26	60.64	12	44.49	6	60.66	33
2	12.25	2	38.65	38	33.50	26	60.76	13	44.43	6	60.99	35
3	12.27	3	38.27	39	33.24	29	60.89	12	44.37	7	61.34	35
4	12.30	5	37.88	40	32.95	30	61.01	10	44.30	9	61.69	37
5	12.35	7	37.48	40	32.65	30	61.11	9	44.21	9	62.06	36
6	12.42	8	37.08	40	32.35	32	61.20	6	44.12	12	62.42	34
7	12.50	10	36.68	38	32.03	31	61.26	4	44.00	13	62.76	33
8	12.60	10	36.30	35	31.72	31	61.30	3	43.87	13	63.09	32
9	12.70	10	35.95	35	31.41	29	61.33	1	43.74	13	63.41	29
10	12.80	10	35.60	33	31.12	27	61.34	1	43.61	13	63.70	27
11	12.90	9	35.27	32	30.85	26	61.35	1	43.48	12	63.97	27
12	12.99	8	34.95	32	30.59	26	61.36	2	43.36	11	64.24	27
13	13.07	7	34.63	32	30.33	25	61.38	3	43.25	10	64.51	27
14	13.14	6	34.31	34	30.08	25	61.41	4	43.15	9	64.78	29
15	13.20	6	33.97	35	29.83	27	61.45	5	43.06	10	65.07	30
16	13.26	8	33.62	37	29.56	27	61.50	5	42.96	10	65.37	31
17	13.34	9	33.25	38	29.29	29	61.55	5	42.86	11	65.68	33
18	13.43	10	32.87	38	29.00	30	61.60	3	42.75	13	66.01	32
19	13.53	12	32.49	38	28.70	32	61.63	2	42.62	14	66.33	32
20	13.65	14	32.11	36	28.38	31	61.65	−1	42.48	16	66.65	30
21	13.79	15	31.75	35	28.07	31	61.64	3	42.32	16	66.95	29
22	13.94	15	31.40	33	27.76	30	61.61	5	42.16	17	67.24	27
23	14.09	15	31.07	32	27.46	28	61.56	5	41.99	16	67.51	25
24	14.24	15	30.75	29	27.18	27	61.51	6	41.83	17	67.76	23
25	14.39	13	30.46	28	26.91	25	61.45	6	41.66	15	67.99	21
26	14.52	11	30.18	29	26.66	24	61.39	5	41.51	13	68.20	22
27	14.63		29.89		26.42		61.34		41.38		68.42	
O. K.	$+\ 0^s.26 \cos\varphi$				$+\ 0^s.26 \cos\varphi$				$+\ 0^s.23 \cos\varphi$			
U. K.	$-\ 0\ .26 \cos\varphi$				$-\ 0\ .26 \cos\varphi$				$-\ 0\ .23 \cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6ᵐ. AR.		Dekl.		ζ Octantis. 6ᵐ–5ᵐ. AR.		Dekl.		ι Octantis. 6ᵐ–5ᵐ. AR.		Dekl.	
	$1^h\ 42^m$		$-85°\ 12'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
Mai 27	14.63	12	29.89	29	26.42	24	61.34	4	41.38	13	68.42	23
28	14.75	12	29.60	30	26.18	25	61.30	2	41.25	14	68.65	23
29	14.87	12	29.30	31	25.93	25	61.28	3	41.11	13	68.88	24
30	14.99	13	28.99	32	25.68	25	61.25	3	40.98	14	69.12	25
31	15.12	14	28.67	33	25.43	27	61.22	3	40.84	15	69.37	25
Juni 1	15.26	16	28.34	33	25.16	28	61.19	5	40.69	16	69.62	26
2	15.42	18	28.01	32	24.88	29	61.14	7	40.53	18	69.88	24
3	15.60	19	27.69	30	24.59	29	61.07	10	40.35	20	70.12	24
4	15.79	20	27.39	29	24.30	28	60.97	11	40.15	19	70.36	21
5	15.99	20	27.10	27	24.02	27	60.86	13	39.96	20	70.57	18
6	16.19	20	26.83	25	23.75	25	60.73	14	39.76	20	70.75	18
7	16.39	19	26.58	24	23.50	24	60.59	13	39.56	19	70.93	15
8	16.58	17	26.34	23	23.26	22	60.46	13	39.37	18	71.08	15
9	16.75	17	26.11	23	23.04	22	60.33	12	39.19	17	71.23	15
10	16.92	15	25.88	24	22.82	22	60.21	11	39.02	15	71.38	16
11	17.07	16	25.64	26	22.60	22	60.10	9	38.87	17	71.54	18
12	17.23	16	25.38	26	22.38	23	60.01	9	38.70	17	71.72	18
13	17.39	17	25.12	28	22.15	24	59.92	9	38.53	16	71.90	19
14	17.56	19	24.84	28	21.91	26	59.83	11	38.37	18	72.09	20
15	17.75	21	24.56	28	21.65	26	59.72	11	38.19	19	72.29	19
16	17.96	21	24.28	27	21.39	27	59.61	14	38.00	21	72.48	19
17	18.17	23	24.01	25	21.12	26	59.47	16	37.79	21	72.67	16
18	18.40	24	23.76	24	20.86	25	59.31	19	37.58	22	72.83	15
19	18.64	24	23.52	21	20.61	24	59.12	19	37.36	22	72.98	12
20	18.88	22	23.31	20	20.37	22	58.93	19	37.14	22	73.10	11
21	19.10	22	23.11	18	20.15	20	58.74	20	36.92	20	73.21	9
22	19.32	21	22.93	17	19.95	19	58.54	18	36.72	19	73.30	7
23	19.53	20	22.76	17	19.76	18	58.36	18	36.53	18	73.37	8
24	19.73	19	22.59	17	19.58	18	58.18	16	36.35	18	73.45	10
25	19.92	19	22.42	19	19.40	19	58.02	16	36.17	17	73.55	10
26	20.11	20	22.23	20	19.21	19	57.86	16	36.00	18	73.65	10
27	20.31	21	22.03	21	19.02	21	57.70	16	35.82	19	73.75	11
28	20.52	23	21.82	20	18.81	21	57.54	17	35.63	20	73.86	12
29	20.75	24	21.62	20	18.60	22	57.37	19	35.43	21	73.98	10
30	20.99	25	21.42	19	18.38	22	57.18	21	35.22	23	74.08	10
Juli 1	21.24	27	21.23	17	18.16	21	56.97	23	34.99	23	74.18	7
2	21.51	27	21.06	14	17.95	21	56.74	26	34.76	24	74.25	5
3	21.78		20.92		17.74		56.48		34.52		74.30	
O. K.	$+0^s.26\cos\varphi$				$+0^s.26\cos\varphi$				$+0^s.23\cos\varphi$			
U. K.	$-0.26\cos\varphi$				$-0.26\cos\varphi$				$-0.23\cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6^m. AR.		Dekl.		ζ Octantis. 6^m-5^m. AR.		Dekl.		ι Octantis. 6^m-5^m. AR.		Dekl.	
	$1^h\ 42^m$		$-85°\ 12'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
Juli 3	21.78	27	20.92	13	17.74	18	56.48	26	34.52	24	74.30	3
4	22.05	25	20.79	12	17.56	17	56.22	26	34.28	22	74.33	2
5	22.30	25	20.67	10	17.39	15	55.96	26	34.06	21	74.35	0
6	22.55	23	20.57	9	17.24	14	55.70	24	33.85	21	74.35	0
7	22.78	21	20.48	10	17.10	12	55.46	24	33.64	19	74.35	1
8	22.99	22	20.38	11	16.98	14	55.22	21	33.45	18	74.36	1
9	23.21	22	20.27	12	16.84	15	55.01	21	33.27	18	74.37	3
10	23.43	22	20.15	14	16.69	15	54.80	20	33.09	19	74.40	5
11	23.65	23	20.01	14	16.54	16	54.60	21	32.90	19	74.45	4
12	23.88	25	19.87	14	16.38	18	54.39	23	32.71	21	74.49	4
13	24.13	26	19.73	14	16.20	17	54.16	23	32.50	22	74.53	4
14	24.39	27	19.59	12	16.03	18	53.93	26	32.28	23	74.57	3
15	24.66	28	19.47	9	15.85	17	53.67	28	32.05	24	74.60	1
16	24.94	28	19.38	7	15.68	14	53.39	30	31.81	24	74.61	2
17	25.22	27	19.31	5	15.54	14	53.09	29	31.57	23	74.59	4
18	25.49	26	19.26	3	15.40	12	52.80	30	31.34	22	74.55	6
19	25.75	25	19.23	2	15.28	9	52.50	29	31.12	21	74.49	8
20	26.00	23	19.21	2	15.19	9	52.21	27	30.91	19	74.41	6
21	26.23	23	19.19	3	15.10	8	51.94	27	30.72	19	74.35	8
22	26.46	22	19.16	3	15.02	9	51.67	26	30.53	17	74.27	6
23	26.68	23	19.13	4	14.93	9	51.41	24	30.36	18	74.21	5
24	26.91	23	19.09	5	14.84	9	51.17	25	30.18	18	74.16	5
25	27.14	25	19.04	5	14.75	11	50.92	25	30.00	20	74.11	4
26	27.39	26	18.99	5	14.64	11	50.67	27	29.80	21	74.07	3
27	27.65	27	18.94	4	14.53	12	50.40	29	29.59	22	74.04	6
28	27.92	28	18.90	1	14.41	10	50.11	31	29.37	22	73.98	8
29	28.20	29	18.89	0	14.31	10	49.80	32	29.15	23	73.90	9
30	28.49	28	18.89	2	14.21	8	49.48	34	28.92	23	73.81	12
31	28.77	27	18.91	4	14.13	7	49.14	34	28.69	22	73.69	13
Aug. 1	29.04	27	18.95	5	14.06	4	48.80	33	28.47	19	73.56	15
2	29.31	24	19.00	7	14.02	3	48.47	32	28.28	19	73.41	14
3	29.55	23	19.07	6	13.99	2	48.15	30	28.09	17	73.27	15
4	29.78	22	19.13	6	13.97	2	47.85	28	27.92	17	73.12	14
5	30.00	22	19.19	4	13.95	2	47.57	27	27.75	16	72.98	14
6	30.22	21	19.23	3	13.93	3	47.30	27	27.59	16	72.84	11
7	30.43	23	19.26	3	13.90 / 13.85	5 / 5	47.03 / 46.77	26 / 27	27.43	17	72.73	10
8	30.66		19.29		13.80		46.50		27.26		72.63	
O. K.	$+0^s.26 \cos\varphi$				$+0^s.26 \cos\varphi$				$+0^s.23 \cos\varphi$			
U. K.	$-0.26 \cos\varphi$				$-0.26 \cos\varphi$				$-0.23 \cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6^m. AR.	Diff.	Octantis 4 G. 6^m. Dekl.	Diff.	ζ Octantis. 6^m-5^m. AR.	Diff.	ζ Octantis. 6^m-5^m. Dekl.	Diff.	ι Octantis. 6^m-5^m. AR.	Diff.	ι Octantis. 6^m-5^m. Dekl.	Diff.
	$1^h\ 42^m$		$-85°\ 12'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
Aug. 8	$30^s.66$	24	$19''.29$	3	$13^s.80$	5	$46''.50$	29	$27^s.26$	18	$72''.63$	10
9	30.90	24	19.32	2	13.75	5	46.21	31	27.08	19	72.53	11
10	31.14	26	19.34	4	13.70	5	45.90	33	26.89	19	72.42	13
11	31.40	27	19.38	6	13.65	4	45.57	33	26.70	21	72.29	14
12	31.67	27	19.44	8	13.61	2	45.24	34	26.49	21	72.15	15
13	31.94	26	19.52	10	13.59	1	44.90	34	26.28	19	72.00	18
14	32.20	25	19.62	12	13.60	2	44.56	33	26.09	19	71.82	20
15	32.45	23	19.74	13	13.62	3	44.23	32	25.90	17	71.62	21
16	32.68	22	19.87	15	13.65	4	43.91	30	25.73	16	71.41	23
17	32.90	21	20.02	13	13.69	4	43.61	29	25.57	14	71.18	21
18	33.11	20	20.15	13	13.73	4	43.32	28	25.43	13	70.97	20
19	33.31	20	20.28	12	13.77	4	43.04	27	25.30	13	70.77	20
20	33.51	20	20.40	11	13.81	2	42.77	28	25.17	13	70.57	19
21	33.71	21	20.51	11	13.83	1	42.49	28	25.04	14	70.38	19
22	33.92	21	20.62	11	13.84	1	42.21	29	24.90	15	70.19	21
23	34.13	23	20.73	11	13.85	2	41.92	32	24.75	16	69.98	22
24	34.36	24	20.84	13	13.87	3	41.60	33	24.59	17	69.86	22
25	34.60	24	20.97	15	13.90	4	41.27	34	24.42	17	69.64	22
26	34.84	24	21.12	18	13.94	6	40.93	34	24.25	17	69.42	24
27	35.08	24	21.30	19	14.00	7	40.59	34	24.08	16	69.18	25
28	35.32	22	21.49	21	14.07	10	40.25	32	23.92	15	68.93	28
29	35.54	20	21.70	21	14.17	10	39.93	30	23.77	13	68.65	28
30	35.74	18	21.91	22	14.27	11	39.63	28	23.64	12	68.37	27
31	35.92	17	22.13	21	14.38	11	39.35	27	23.52	10	68.10	27
Sept. 1	36.09	15	22.34	19	14.49	10	39.08	25	23.42	9	67.83	26
2	36.24	16	22.53	19	14.59	9	38.83	25	23.33	9	67.57	24
3	36.40	17	22.72	18	14.68	8	38.58	26	23.24	8	67.33	22
4	36.57	17	22.90	17	14.76	8	38.32	25	23.16	10	67.11	22
5	36.74	18	23.07	17	14.84	7	38.07	27	23.06	10	66.89	22
6	36.92	19	23.24	17	14.91	8	37.80	29	22.96	12	66.67	22
7	37.11	20	23.41	19	14.99	8	37.51	30	22.84	12	66.45	24
8	37.31	19	23.60	21	15.07	11	37.21	30	22.72	12	66.21	26
9	37.50	19	23.81	24	15.18	12	36.91	31	22.60	12	65.95	28
10	37.69	18	24.05	25	15.30	14	36.60	30	22.48	11	65.67	29
11	37.87	17	24.30	26	15.44	15	36.30	27	22.37	10	65.38	31
12	38.04	14	24.56	27	15.59	17	36.03	26	22.27	8	65.07	31
13	38.18		24.83		15.76		35.77		22.19		64.76	
O. K.	$+0^s.26\cos\varphi$				$+0^s.26\cos\varphi$				$+0^s.23\cos\varphi$			
U. K.	$-0.26\cos\varphi$				$-0.26\cos\varphi$				$-0.23\cos\varphi$			

Obere Kulmination.

1912	Octantis 4 G. 6ᵐ. AR.		Dekl.		ζ Octantis. 6ᵐ—5ᵐ. AR.		Dekl.		ι Octantis. 6ᵐ—5ᵐ. AR.		Dekl.	
	1ʰ 42ᵐ		−85° 12′		9ʰ 9ᵐ		−85° 18′		12ʰ 45ᵐ		−84° 38′	
Sept. 13	38ˢ.18	14	24″.83	27	15ˢ.76	17	35″.77	25	22ˢ.19	6	64″.76	31
14	38.32	12	25.10	26	15.93	16	35.52	23	22.13	4	64.45	30
15	38.44	11	25.36	26	16.09	16	35.29	21	22.09	4	64.15	29
16	38.55	11	25.62	25	16.25	15	35.08	22	22.05	4	63.86	28
17	38.66	11	25.87	24	16.40	15	34.86	22	22.01	4	63.58	27
18	38.77	13	26.11	23	16.55	14	34.64	22	21.97	6	63.31	26
19	38.90	14	26.34	23	16.69	14	34.42	23	21.91	5	63.05	26
20	39.04	14	26.57	24	16.83	14	34.19	26	21.86	7	62.79	27
21	39.18	14	26.81	25	16.97	15	33.93	26	21.79	7	62.52	28
22	39.32	15	27.06	28	17.12	18	33.67	26	21.72	7	62.24	31
23	39.47	14	27.34	30	17.30	19	33.41	26	21.65	5	61.93	32
24	39.61	12	27.64	32	17.49	20	33.15	24	21.60	5	61.61	33
25	39.73	11	27.96	32	17.69	22	32.91	23	21.55	4	61.28	34
26	39.84	9	28.28	32	17.91	22	32.68	21	21.51	1	60.94	34
27	39.93	8	28.60	32	18.13	22	32.47	18	21.50	0	60.60	33
28	40.01	6	28.92	30	18.35	22	32.29	17	21.50	2	60.27	32
29	40.07	5	29.22	29	18.57	20	32.12	15	21.52	1	59.95	30
30	40.12	5	29.51	27	18.77	19	31.97	15	21.53	2	59.65	29
Okt. 1	40.17	5	29.78	27	18.96	19	31.82	15	21.55	2	59.36	27
2	40.22	7	30.05	26	19.15	18	31.67	16	21.57	1	59.09	27
3	40.29	7	30.31	26	19.33	17	31.51	17	21.58	0	58.82	26
4	40.36	8	30.57	27	19.50	19	31.34	18	21.58	1	58.56	28
5	40.44	7	30.84	29	19.69	20	31.16	19	{ 21.57	0	58.28	28
									} 21.57	1	58.00	30
6	40.51	8	31.13	30	19.89	21	30.97	18	21.56—	1	57.70	31
7	40.59	7	31.43	32	20.10	24	30.79	19	21.57	1	57.39	33
8	40.66	5	31.75	34	20.34	25	30.60	17	21.58	4	57.06	33
9	40.71	4	32.09	34	20.59	26	30.43	15	21.62	5	56.73	33
10	40.75	1	32.43	34	20.85	26	30.28	12	21.67	7	56.40	32
11	40.76	0	32.77	34	21.11	26	30.16	10	21.74	7	56.08	31
12	40.76	1	33.11	32	21.37	25	30.06	9	21.81	8	55.77	30
13	40.75	2	33.43	30	21.62	24	29.97	8	21.89	8	55.47	27
14	40.73	1	33.73	29	21.86	23	29.89	8	21.97	7	55.20	26
15	40.72	0	34.02	28	22.09	22	29.81	8	22.04	7	54.94	26
16	40.72	0	34.30	28	22.31	22	29.73	10	22.11	6	54.68	26
17	40.72	1	34.58	29	22.53	22	29.63	10	22.17	6	54.42	27
18	40.73	1	34.87	30	22.75	23	29.53	12	22.23	5	54.15	29
19	40.74		35.17		22.98		29.41		22.28		53.86	
O. K.	+ 0ˢ.26 cos φ				+ 0ˢ.26 cos φ				+ 0ˢ.23 cos φ			
U. K.	— 0 .26 cos φ				— 0 .26 cos φ				— 0 .23 cos φ			

Obere Kulmination.

1912	Octantis 4 G. 6ᵐ. AR.		Dekl.		ζ Octantis. 6ᵐ – 5ᵐ. AR.		Dekl.		ι Octantis. 6ᵐ – 5ᵐ. AR.		Dekl.	
	$1^h\ 42^m$		−85° 12′		$9^h\ 9^m$		−85° 18′		$12^h\ 45^m$		−84° 38′	
	s		″		s		″		s		″	
Okt. 19	40.74	2	35.17	31	22.98	24	29.41	12	22.28	5	53.86	30
20	40.76	1	35.48	33	23.22	25	29.29	12	22.33	7	53.56	31
21	40.77	0	35.81	34	23.47	27	29.17	10	22.40	8	53.25	32
22	40.77	2	36.15	34	23.74	28	29.07	8	22.48	10	52.93	32
23	40.75	4	36.49	35	24.02	30	28.99	6	22.58	11	52.61	30
24	40.71	5	36.84	35	24.32	29	28.93	4	22.69	13	52.31	29
25	40.66	7	37.19	33	24.61	28	28.89	1	22.82	14	52.02	28
26	40.59	8	37.52	31	24.89	27	28.88	1	22.96	15	51.74	25
27	40.51	9	37.83	30	25.16	26	28.89	0	23.11	14	51.49	23
28	40.42	8	38.13	28	25.42	24	28.89	1	23.25	13	51.26	23
29	40.34	7	38.41	26	25.66	23	28.90	0	23.38	11	51.03	22
30	40.27	7	38.67	26	25.89	23	28.90	0	23.49	12	50.81	21
31	40.20	6	38.93	26	26.12	23	28.90	2	23.61	10	50.60	22
Nov. 1	40.14	5	39.19	28	26.35	24	28.88	3	23.71	12	50.38	24
2	40.09	5	39.47	29	26.59	26	28.85	2	23.83	11	50.14	25
3	40.04	6	39.76	31	26.85	27	28.83	2	23.94	13	49.89	27
4	39.98	7	40.07	31	27.12	27	28.81	1	24.07	15	49.62	26
5	39.91	10	40.38	33	27.39	29	28.82	2	24.22	16	49.36	26
6	39.81	11	40.71	32	27.68	30	28.84	3	24.38	18	49.10	26
7	39.70	13	41.03	32	27.98	30	28.87	6	24.56	18	48.84	23
8	39.57	14	41.35	29	28.28	28	28.93	8	24.74	20	48.61	22
9	39.43	13	41.64	29	28.56	27	29.01	9	24.94	19	48.39	20
10	39.30	15	41.93	26	28.83	26	29.10	10	25.13	19	48.19	18
11	39.15	15	42.19	25	29.09	25	29.20	10	25.32	18	48.01	17
12	39.00	13	42.44	24	29.34	24	29.30	8	25.50	17	47.84	17
13	38.87	13	42.68	23	29.58	23	29.38	7	25.67	16	47.67	17
14	38.74	12	42.91	25	29.81	24	29.45	7	25.83	16	47.50	18
15	38.62	11	43.16	25	30.05	24	29.52	6	25.99	16	47.32	19
16	38.51	11	43.41	27	30.29	26	29.58	6	26.15	17	47.13	20
17	38.40	12	43.68	28	30.55	27	29.64	7	26.32	18	46.93	22
18	38.28	14	43.96	29	30.82	27	29.71	8	26.50	20	46.71	21
19	38.14	16	44.25	29	31.09	29	29.79	11	26.70	21	46.50	20
20	37.98	17	44.54	27	31.38	29	29.90	13	26.91	23	46.30	18
21	37.81	19	44.81	27	31.67	27	30.03	16	27.14	23	46.12	18
22	37.62	20	45.08	26	31.94	27	30.19	17	27.37	24	45.94	14
23	37.42	21	45.34	23	32.21	25	30.36	19	27.61	24	45.80	12
24	37.21	20	45.57	20	32.46	23	30.55	19	27.85	23	45.68	10
25	37.01		45.77		32.69		30.74		28.08		45.58	
O. K.	+ 0ˢ.26 cos φ				+ 0ˢ.26 cos φ				+ 0ˢ.23 cos φ			
U. K.	— 0 .26 cos φ				— 0 .26 cos φ				— 0 .23 cos φ			

Obere Kulmination.

1912	Octantis 4 G. 6^m.				ζ Octantis. $6^m - 5^m$.				ι Octantis. $6^m - 5^m$.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$1^h\ 42^m$		$-85°\ 12'$		$9^h\ 9^m$		$-85°\ 18'$		$12^h\ 45^m$		$-84°\ 38'$	
	s		"		s		"		s		"	
Nov. 25	37.01	20	45.77	19	32.69	22	30.74	18	28.08	22	45.58	9
26	36.81	18	45.96	18	32.91	21	30.92	17	28.30	21	45.49	9
27	36.63	18	46.14	17	33.12	21	31.09	17	28.51	20	45.40	10
28	36.45	18	46.31	18	33.33	21	31.26	16	28.71	19	45.30	9
29	36.27	17	46.49	19	33.54	22	31.42	15	28.90	20	45.21	10
30	36.10	17	46.68	20	33.76	23	31.57	16	29.10	21	45.11	12
Dez. 1	35.93	18	46.88	21	33.99	24	31.73	17	29.31	22	44.99	13
2	35.75	20	47.09	21	34.23	25	31.90	18	29.53	23	44.86	12
3	35.55	21	47.30	22	34.48	26	32.08	20	29.76	24	44.74	11
4	35.34	23	47.52	21	34.74	26	32.28	22	30.02	26	44.63	10
5	35.11	25	47.73	19	35.00	24	32.50	25	30.28	27	44.53	7
6	34.86	25	47.92	18	35.24	23	32.75	25	30.55	26	44.46	6
7	34.61	24	48.10	15	35.47	22	33.00	27	30.81	26	44.40	4
8	34.37	25	48.25	14	35.69	20	33.27	26	31.07	25	44.36	2
9	34.12	23	48.39	12	35.89	19	33.53	25	31.32	24	44.34	2
10	33.89	23	48.51	10	36.08	18	33.78	24	31.56	22	44.32	1
11	33.66	21	48.61	12	36.26	17	34.02	23	31.78	23	44.31	2
12	33.45	20	48.73	12	36.43	18	34.25	22	32.01	22	44.29	3
13	33.25	21	48.85	13	36.61	19	34.47	22	32.23	22	44.26	5
14	33.04	21	48.98	14	36.80	19	34.69	23	32.45	23	44.21	4
15	32.83	22	49.12	15	36.99	21	34.92	23	32.68	25	44.17	5
16	32.61	24	49.27	16	37.20	21	35.15	25	32.93	26	44.12	4
17	32.37	25	49,43	15	37.41	21	35.40	28	33.19	27	44.08	2
18	32.12	27	49.58	13	37.62	20	35.68	30	33.46	27	44.06	1
19	31.85	28	49.71	11	37.82	19	35.98	32	33.73	29	44.05	−1
20	31.57	28	49.82	9	38.01	18	36.30	32	34.02	28	44.06	3
21	31.29	28	49.91	7	38.19	16	36.62	34	34.30	27	44.09	6
22	31.01	27	49.98	5	38.35	14	36.96	33	34.57	27	44.15	8
23	30.74	26	50.03	3	38.49	13	37.29	32	34.84	25	44.23	8
24	30.48	26	50.06	3	38.62	12	37.61	31	35.09	25	44.31	8
25	30.22	24	50.09	2	38.74	12	37.92	30	35.34	23	44.39	8
26	29.98	23	50.11	3	38.86	12	38.22	29	35.57	23	44.47	7
27	29.75	24	50.14	5	38.98	13	38.51	29	35.80	23	44.54	6
28	29.51	24	50.19	5	39.11	14	38.80	29	36.03	24	44.60	5
29	29.27	25	50.24	5	39.25	15	39.09	30	36.27	26	44.65	5
30	29.02	27	50.29	6	39.40	16	39.39	32	36.53	26	44.70	6
31	28.75	28	50.35	6	39.56	15	39.71	34	36.79	28	44.76	7
32	28.47		50.41		39.71		40.05		37.07		44.83	
O. K.	$+0^s.26 \cos\varphi$				$+0^s.26 \cos\varphi$				$+0^s.23 \cos\varphi$			
U. K.	$-0.26 \cos\varphi$				$-0.26 \cos\varphi$				$-0.23 \cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$14^h\ 43^m$		$-87°\ 47'$		$16^h\ 27^m$		$-86°\ 12'$		$18^h\ 2^m$		$-87°\ 39'$	
Jan. 1	29.10	64	19.98	7	28.94	32	14.09	22	35.51	32	57.72	33
2	29.74	64	19.91	6	29.26	32	13.87	19	35.83	33	57.39	31
3	30.38	63	19.85	3	29.58	30	13.68	18	36.16	33	57.08	29
4	31.01	59	19.82	3	29.88	30	13.50	17	36.49	33	56.79	27
5	31.60	57	19.79	3	30.18	28	13.33	17	36.82	30	56.52	26
6	32.17	56	19.76	4	30.46	28	13.16	17	37.12	28	56.26	26
7	32.73	55	19.72	6	30.74	27	12.99	18	37.40	26	56.00	27
8	33.28	57	19.66	7	31.01	26	12.81	20	37.66	26	55.73	29
9	33.85	59	19.59	7	31.27	28	12.61	21	37.92	27	55.44	30
10	34.44	62	19.52	8	31.55	30	12.40	22	38.19	29	55.14	32
11	35.06	64	19.44	6	31.85	31	12.18	22	38.48	31	54.82	32
12	35.70	68	19.38	6	32.16	34	11.96	22	38.79	35	54.50	33
13	36.38	69	19.32	4	32.50	35	11.74	20	39.14	38	54.17	32
14	37.07	69	19.28	1	32.85	36	11.54	17	39.52	41	53.85	30
15	37.76	68	19.27 —	1	33.21	36	11.37	16	39.93	43	53.55	29
16	38.44	66	19.28	3	33.57	37	11.21	14	40.36	44	53.26	27
17	39.10	64	19.31	4	33.94	35	11.07	12	40.80	43	52.99	24
18	39.74	60	19.35	4	34.29	33	10.95	11	41.23	42	52.75	23
19	40.34	59	19.39	4	34.62	33	10.84	10	41.65	40	52.52	23
20	40.93	58	19.43	3	34.95	31	10.74	12	42.05	38	52.29	23
21	41.51	57	19.46	2	35.26	32	10.62	12	42.43	37	52.06	24
22	42.08	60	19.48	1	35.58	32	10.50	14	42.80	38	51.82	25
23	42.68	63	19.49	1	35.90	33	10.36	15	43.18	38	51.57	27
24	43.31	65	19.50	0	36.23	35	10.21	15	43.56	41	51.30	28
25	43.96	68	19.50	2	36.58	37	10.06	15	43.97	45	51.02	28
26	44.64	71	19.52	4	36.95	39	9.91	13	44.42	48	50.74	28
27	45.35	72	19.56	6	37.34	41	9.78	12	44.90	51	50.46	28
28	46.07	72	19.62	8	37.75	41	9.66	10	45.41	54	50.18	25
29	46.79	69	19.70	10	38.16	42	9.56	8	45.95	55	49.93	24
30	47.48	67	19.80	12	38.58	41	9.48	5	46.50	56	49.69	21
31	48.15	65	19.92	12	38.99	40	9.43	4	47.06	55	49.48	19
Febr. 1	48.80	62	20.04	13	39.39	38	9.39	3	47.61	53	49.29	18
2	49.42	60	20.17	12	39.77	36	9.36	4	48.14	51	49.11	17
3	50.02	58	20.29	11	40.13	35	9.32	4	48.65	49	48.94	18
4	50.60	58	20.40	10	40.48	35	9.28	5	49.14	48	48.76	19
5	51.18	60	20.50	8	40.83	36	9.23	8	49.62	48	48.57	21
6	51.78	63	20.58	9	41.19	37	9.15	8	50.10	49	48.36	22
7	52.41		20.67		41.56		9.07		50.59		48.14	
O. K.	$+0^s.55\cos\varphi$				$+0^s.32\cos\varphi$				$+0^s.52\cos\varphi$			
U. K.	$-0.55\cos\varphi$				$-0.32\cos\varphi$				$-0.52\cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7ᵐ.				Octantis 26 G. 6ᵐ–7ᵐ.				χ Octantis. 6ᵐ.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$14^h\,43^m$		$-87°\,47'$		$16^h\,27^m$		$-86°\,12'$		$18^h\,2^m$		$-87°\,39'$	
	s		"		s		"		s		"	
Febr. 7	52.41	65	20.67	9	41.56	38	9.07	9	50.59	51	48.14	23
8	53.06	68	20.76	10	41.94	40	8.98	8	51.10	54	47.91	23
9	53.74	69	20.86	10	42.34	42	8.90	6	51.64	56	47.68	22
10	54.43	69	20.96	14	42.76	42	8.84	5	52.20	59	47.46	21
11	55.12	68	21.10	16	43.18	43	8.79	2	52.79	62	47.25	19
12	55.80	66	21.26	17	43.61	43	8.77	0	53.41	62	47.06	17
13	56.46	62	21.43	19	44.04	41	8.77	1	54.03	61	46.89	15
14	57.08	59	21.62	19	44.45	39	8.78	3	54.64	60	46.74	13
15	57.67	57	21.81	20	44.84	38	8.81	3	55.24	58	46.61	12
16	58.24	55	22.01	18	45.22	37	8.84	3	55.82	56	46.49	12
17	58.79	54	22.19	17	45.59	36	8.87	2	56.38	54	46.37	12
18	59.33	55	22.36	16	45.95	37	8.89	1	56.92	53	46.25	13
19	59.88	56	22.52	16	46.32	37	8.90	0	57.45	54	46.12	15
20	60.44	60	22.68	15	46.69	38	8.90	1	57.99	56	45.97	16
21	61.04	62	22.83	15	47.07	40	8.89	1	58.55	58	45.81	18
22	61.66	64	22.98	18	47.47	42	8.88	1	59.13	62	45.63	17
23	62.30	66	23.16	20	47.89	44	8.87	2	59.75	66	45.46	15
24	62.96	66	23.36	22	48.33	44	8.89	3	60.41	67	45.31	15
25	63.62	65	23.58	23	48.77	43	8.92	6	61.08	69	45.16	12
26	64.27	62	23.81	26	49.20	44	8.98	7	61.77	70	45.04	10
27	64.89	57	24.07	26	49.64	42	9.05	10	62.47	68	44.94	7
28	65.46	55	24.33	27	50.06	41	9.15	10	63.15	66	44.87	7
29	66.01	53	24.60	26	50.47	39	9.25	11	63.81	64	44.80	6
März 1	66.54	50	24.86	26	50.86	37	9.36	10	64.45	61	44.74	5
2	67.04	49	25.12	24	51.23	37	9.46	9	65.06	59	44.69	6
3	67.53	50	25.36	22	51.60	37	9.55	7	65.65	59	44.63	7
4	68.03	52	25.58	20	51.97	36	9.62	6	66.24	59	44.56	10
5	68.55	54	25.78	21	52.33	38	9.68	6	66.83	60	44.46	10
6	69.09	56	25.99	23	52.71	40	9.74	6	67.43	61	44.36	10
7	69.65	58	26.22	23	53.11	41	9.80	6	68.04	65	44.26	10
8	70.23	58	26.45	25	53.52	42	9.86	9	68.69	68	44.16	9
9	70.81	58	26.70	28	53.94	42	9.95	10	69.37	69	44.07	7
10	71.39	56	26.98	29	54.36	42	10.05	13	70.06	70	44.00	5
11	71.95	52	27.27	30	54.78	41	10.18	14	70.76	70	43.95	3
12	72.47	48	27.57	31	55.19	40	10.32	17	71.46	69	43.92	1
13	72.95	45	27.88	31	55.59	38	10.49	17	72.15	65	43.91	1
14	73.40	43	28.19	30	55.97	35	10.66	17	72.80	63	43.92	1
15	73.83		28.49		56.32		10.83		73.43		43.93	
O. K.	$+0^s.55 \cos\varphi$				$+0^s.32 \cos\varphi$				$+0^s.52 \cos\varphi$			
U. K.	$-0.55 \cos\varphi$				$-0.32 \cos\varphi$				$-0.52 \cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7ᵐ. AR.		Octantis 20 G. 7ᵐ. Dekl.		Octantis 26 G. 6ᵐ–7ᵐ. AR.		Octantis 26 G. 6ᵐ–7ᵐ. Dekl.		χ Octantis. 6ᵐ. AR.		χ Octantis. 6ᵐ. Dekl.	
	$14^h\ 44^m$		$-87°\ 47'$		$16^h\ 27^m$		$-86°\ 12'$		$18^h\ 3^m$		$-87°\ 39'$	
März 15	13.83	41	28.49	29	56.32	34	10.83	15	13.43	62	43.93	1
16	14.24	41	28.78	28	56.66	34	10.98	15	14.05	59	43.94	1
17	14.65	42	29.06	26	57.00	35	11.13	13	14.64	60	43.93	1
18	15.07	44	29.32	26	57.35	34	11.26	12	15.24	60	43.92	2
19	15.51	47	29.58	26	57.69	36	11.38	12	15.84	62	43.90	3
20	15.98	49	29.84	27	58.05	38	11.50	12	16.46	64	43.87	4
21	16.47	50	30.11	29	58.43	40	11.62	13	17.10	68	43.83	3
22	16.97	51	30.40	31	58.83	41	11.75	15	17.78	70	43.80	2
23	17.48	50	30.71	33	59.24	40	11.90	17	18.48	71	43.78	0
24	17.98	46	31.04	34	59.64	40	12.07	20	19.19	72	43.78	3
25	18.44	43	31.38	36	60.04	39	12.27	21	19.91	71	43.81	5
26	18.87	40	31.74	37	60.43	37	12.48	23	20.62	69	43.86	6
27	19.27	37	32.11	35	60.80	35	12.71	23	21.31	67	43.92	7
28	19.64	34	32.46	35	61.15	33	12.94	22	21.98	64	43.99	8
29	19.98	32	32.81	34	61.48	32	13.16	22	22.62	61	44.07	6
30	20.30	32	33.15	31	61.80	32	13.38	20	23.23	60	44.13	7
31	20.62	34	33.46	31	62.12	31	13.58	19	23.83	59	44.20	5
April 1	20.96	36	33.77	29	62.43	32	13.77	17	24.42	59	44.25	4
2	21.32	37	34.06	29	62.75	33	13.94	18	25.01	61	44.29	1
3	21.69	39	34.35	31	63.08	34	14.12	18	25.62	63	44.30	3
4	22.08	40	34.66	32	63.42	36	14.30	19	26.25	64	44.33	4
5	22.48	39	34.98	34	63.78	36	14.49	21	26.89	68	44.37	5
6	22.87	37	35.32	36	64.14	35	14.70	23	27.57	67	44.42	7
7	23.24	34	35.68	36	64.49	35	14.93	25	28.24	68	44.49	10
8	23.58	30	36.04	37	64.84	33	15.18	26	28.92	66	44.59	12
9	23.88	27	36.41	39	65.17	31	15.44	28	29.58	64	44.71	12
10	24.15	23	36.80	38	65.48	29	15.72	27	30.22	61	44.83	14
11	24.38	21	37.18	36	65.77	28	15.99	27	30.83	58	44.97	15
12	24.59	21	37.54	34	66.05	26	16.26	26	31.41	56	45.12	13
13	24.80	22	37.88	33	66.31	26	16.52	24	31.97	54	45.25	12
14	25.02	23	38.21	32	66.57	26	16.76	23	32.51	55	45.37	11
15	25.25	25	38.53	31	66.83	27	16.99	22	33.06	56	45.48	9
16	25.50	28	38.84	32	67.10	30	17.21	22	33.62	58	45.57	9
17	25.78	28	39.16	34	67.40	31	17.43	23	34.20	61	45.66	9
18	26.06	30	39.50	35	67.71	31	17.66	24	34.81	63	45.75	11
19	26.36	29	39.85	37	68.02	32	17.90	26	35.44	64	45.86	12
20	26.65	27	40.22	39	68.34	31	18.16	28	36.08	65	45.98	13
21	26.92		40.61		68.65		18.44		36.73		46.11	
O. K.	$+0^s.55 \cos\varphi$				$+0^s.32 \cos\varphi$				$+0^s.52 \cos\varphi$			
U. K.	$-0.55 \cos\varphi$				$-0.32 \cos\varphi$				$-0.52 \cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7ᵐ.				Octantis 26 G. 6ᵐ–7ᵐ.				χ Octantis. 6ᵐ.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	14ʰ 44ᵐ		−87° 47′		16ʰ 28ᵐ		−86° 12′		18ʰ 3ᵐ		−87° 39′	
April 21	26.92ˢ	23	40.61″	40	8.65ˢ	30	18.44″	30	36.73ˢ	64	46.11″	16
22	27.15	19	41.01	40	8.95	28	18.74	31	37.37	62	46.27	18
23	27.34	15	41.41	40	9.23	27	19.05	32	37.99	59	46.45	19
24	27.49	13	41.81	39	9.50	24	19.37	31	38.58	57	46.64	20
25	27.62	11	42.20	38	9.74	22	19.68	31	39.15	54	46.84	19
26	27.73	10	42.58	36	9.96	22	19.99	30	39.69	51	47.03	19
27	27.83	10	42.94	34	10.18	21	20.29	27	40.20	49	47.22	18
28	27.93	12	43.28	33	10.39	21	20.56	27	40.69	49	47.40	16
29	28.05	14	43.61	33	10.60	23	20.83	25	41.18	51	47.56	15
30	28.19	16	43.94	33	10.83	24	21.08	25	41.69	51	47.71	14
Mai 1	28.35	17	44.27	34	11.07	24	21.33	27	42.20	54	47.85	15
2	28.52	17	44.61	35	11.31	25	21.60	28	42.74	56	48.00	16
3	28.69	15	44.96	37	11.56	25	21.88	29	43.30	56	48.16	17
4	28.84	12	45.33	38	11.81	24	22.17	31	43.86	57	48.33	20
5	28.96	9	45.71	39	12.05	22	22.48	33	44.43	55	48.53	22
6	29.05	5	46.10	40	12.27	20	22.81	34	44.98	53	48.75	24
7	29.10	1	46.50	39	12.47	18	23.15	35	45.51	50	48.99	25
8	29.11	2	46.89	37	12.65	16	23.50	34	46.01	46	49.24	25
9	29.09	2	47.26	36	12.81	16	23.84	32	46.47	43	49.49	25
10	29.07	2	47.62	34	12.97	14	24.16	32	46.90	41	49.74	24
11	29.05	1	47.96	32	13.11	14	24.48	29	47.31	40	49.98	21
12	29.04	1	48.28	32	13.25	15	24.77	27	47.71	41	50.19	21
13	29.03	2	48.60	32	13.40	15	25.04	28	48.12	43	50.40	20
14	29.05	5	48.92	33	13.55	17	25.32	29	48.55	45	50.60	19
15	29.10	5	49.25	34	13.72	19	25.61	29	49.00	46	50.79	19
16	29.15	5	49.59	35	13.91	19	25.90	31	49.46	49	50.98	21
17	29.20	4	49.94	37	14.10	19	26.21	32	49.95	50	51.19	23
18	29.24	0	50.31	39	14.29	18	26.53	34	50.45	49	51.42	25
19	29.24	4	50.70	39	14.47	16	26.87	37	50.94	48	51.67	27
20	29.20	7	51.09	39	14.63	14	27.24	36	51.42	45	51.94	29
21	29.13	10	51.48	37	14.77	12	27.60	37	51.87	41	52.23	29
22	29.03	12	51.85	36	14.89	10	27.97	35	52.28	37	52.52	29
23	28.91	14	52.21	35	14.99	8	28.32	34	52.65	35	52.81	29
24	28.77	14	52.56	32	15.07	8	28.66	32	53.00	33	53.10	27
25	28.63	13	52.88	31	15.15	7	28.98	31	53.33	31	53.37	25
26	28.50	10	53.19	30	15.22	8	29.29	29	53.64	32	53.62	24
27	28.40	9	53.49	30	15.30	9	29.58	29	53.96	33	53.86	24
28	28.31		53.79		15.39		29.87		54.29		54.10	
O. K.	+ 0ˢ.55 cos φ				+ 0ˢ.32 cos φ				+ 0ˢ.52 cos φ			
U. K.	− 0 .55 cos φ				− 0 .32 cos φ				− 0 .52 cos φ			

Obere Kulmination.

1912	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$14^h\ 44^m$		$-87°\ 47'$		$16^h\ 28^m$		$-86°\ 12'$		$18^h\ 3^m$		$-87°\ 39'$	
Mai 28	28.31	9	53.79	30	15.39	11	29.87	28	54.29	35	54.10	23
29	28.22	7	54.09	31	15.50	11	30.15	30	54.64	37	54.33	23
30	28.15	8	54.40	33	15.61	11	30.45	32	55.01	37	54.56	26
31	28.07	11	54.73	34	15.72	11	30.77	34	55.38	37	54.82	27
Juni 1	27.96	14	55.07	35	15.83	9	31.11	35	55.75	36	55.09	30
2	27.82	18	55.42	35	15.92	7	31.46	36	56.11	34	55.39	30
3	27.64	21	55.77	35	15.99	4	31.82	37	56.45	31	55.69	32
4	27.43	24	56.12	34	16.03	3	32.19	35	56.76	27	56.01	33
5	27.19	26	56.46	31	16.06	0	32.54	35	57.03	25	56.34	32
6	26.93	27	56.77	30	16.06	0	32.89	33	57.28	21	56.66	31
7	26.66	26	57.07	29	16.06	1	33.22	32	57.49	20	56.97	30
8	26.40	24	57.36	26	16.07	0	33.54	29	57.69	20	57.27	28
9	26.16	22	57.62	26	16.07	1	33.83	29	57.89	21	57.55	26
10	25.94	20	57.88	26	16.08	2	34.12	28	58.10	23	57.81	26
11	25.74	19	58.14	27	16.10	3	34.40	29	58.33	24	58.07	26
12	25.55	18	58.41	28	16.13	4	34.69	30	58.57	26	58.33	27
13	25.37	19	58.69	29	16.17	4	34.99	32	58.83	27	58.60	28
14	25.18	22	58.98	31	16.21	3	35.31	33	59.10	27	58.88	30
15	24.96	25	59.29	32	16.24	2	35.64	35	59.37	25	59.18	32
16	24.71	28	59.61	32	16.26	0	35.99	35	59.62	24	59.50	33
17	24.43	32	59.93	31	16.26	2	36.34	36	59.86	20	59.83	34
18	24.11	34	60.24	30	16.24	5	36.70	35	60.06	16	60.17	34
19	23.77	36	60.54	28	16.19	7	37.05	33	60.22	13	60.51	34
20	23.41	37	60.82	24	16.12	7	37.38	31	60.35	10	60.85	33
21	23.04	35	61.06	23	16.05	8	37.69	30	60.45	9	61.18	30
22	22.69	34	61.29	22	15.97	7	37.99	28	60.54	8	61.48	29
23	22.35	31	61.51	21	15.90	6	38.27	26	60.62	8	61.77	28
24	22.04	30	61.72	22	15.84	5	38.53	26	60.70	10	62.05	27
25	21.74	28	61.94	22	15.79	4	38.79	27	60.80	12	62.32	28
26	21.46	29	62.16	23	15.75	4	39.06	28	60.92	12	62.60	28
27	21.17	30	62.39	24	15.71	4	39.34	30	61.04	14	62.88	30
28	20.87	34	62.63	26	15.67	5	39.64	31	61.18	12	63.18	32
29	20.53	37	62.89	25	15.62	8	39.95	32	61.30	10	63.50	33
30	20.16	41	63.14	26	15.54	9	40.27	32	61.40	8	63.83	34
Juli 1	19.75	43	63.40	24	15.45	12	40.59	33	61.48	5	64.17	35
2	19.32	46	63.64	22	15.33	13	40.92	32	61.53	1	64.52	35
3	18.86	47	63.86	21	15.20	15	41.24	29	61.54	$\bar{3}$	64.87	34
4	18.39		64.07		15.05		41.53		61.51		65.21	
O. K.	$+0^s.56 \cos\varphi$				$+0^s.32 \cos\varphi$				$+0^s.52 \cos\varphi$			
U. K.	$-0.56 \cos\varphi$				$-0.32 \cos\varphi$				$-0.52 \cos\varphi$			

Obere Kulmination.

1912		Octantis 20 G. 7ᵐ.				Octantis 26 G. 6ᵐ–7ᵐ.				χ Octantis. 6ᵐ.			
		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
		14ʰ 44ᵐ		−87° 48′		16ʰ 28ᵐ		−86° 12′		18ʰ 3ᵐ		−87° 40′	
		s		″		s		″		s		″	
Juli	4	18.39	46	4.07	18	15.05	15	41.53	27	61.51	5	5.21	32
	5	17.93	45	4.25	16	14.90	15	41.80	26	61.46	6	5.53	30
	6	17.48	42	4.41	15	14.75	14	42.06	24	61.40	4	5.83	28
	7	17.06	39	4.56	15	14.61	14	42.30	23	61.36	4	6.11	27
	8	16.67	37	4.71	15	14.47	12	42.53	23	61.32	2	6.38	26
	9	16.30	36	4.86	17	14.35	11	42.76	25	61.30	0	6.64	27
	10	15.94	37	5.03	17	14.24	10	43.01	25	61.30	1	6.91	28
	11	15.57	38	5.20	19	14.14	11	43.26	26	61.31	2	7.19	30
	12	15.19	40	5.39	20	14.03	11	43.52	29	61.33	1	7.49	31
	13	14.79	44	5.59	21	13.92	14	43.81	29	61.34	−1	7.80	33
	14	14.35	47	5.80	19	13.78	16	44.10	29	61.33	4	8.13	34
	15	13.88	51	5.99	18	13.62	18	44.39	28	61.29	9	8.47	34
	16	13.37	52	6.17	15	13.44	19	44.67	26	61.20	12	8.81	33
	17	12.85	52	6.32	13	13.25	21	44.93	25	61.08	14	9.14	31
	18	12.33	51	6.45	11	13.04	22	45.18	23	60.94	17	9.45	30
	19	11.82	50	6.56	10	12.82	21	45.41	20	60.77	17	9.75	27
	20	11.32	47	6.66	8	12.61	20	45.61	19	60.60	17	10.02	27
	21	10.85	45	6.74	8	12.41	19	45.80	18	60.43	16	10.29	25
	22	10.40	43	6.82	7	12.22	18	45.98	18	60.27	14	10.54	24
	23	9.97	42	6.89	9	12.04	17	46.16	19	60.13	13	10.78	25
	24	9.55	43	6.98	11	11.87	18	46.35	20	60.00	13	11.03	26
	25	9.12	46	7.09	11	11.69	18	46.55	22	59.87	12	11.29	27
	26	8.66	48	7.20	12	11.51	19	46.77	22	59.75	14	11.56	30
	27	8.18	52	7.32	11	11.32	21	46.99	24	59.61	17	11.86	30
	28	7.66	54	7.43	11	11.11	24	47.23	23	59.44	20	12.16	31
	29	7.12	57	7.54	9	10.87	24	47.46	22	59.24	23	12.47	31
	30	6.55	58	7.63	6	10.63	27	47.68	20	59.01	26	12.78	30
	31	5.97	57	7.69	4	10.36	28	47.88	18	58.75	29	13.08	27
Aug.	1	5.40	56	7.73	2	10.08	28	48.06	15	58.46	31	13.35	25
	2	4.84	53	7.75	1	9.80	27	48.21	14	58.15	31	13.60	25
	3	4.31	50	7.76	0	9.53	25	48.35	13	57.84	28	13.85	23
	4	3.81	47	7.76	0	9.28	24	48.48	12	57.56	27	14.08	21
	5	3.34	45	7.76	1	9.04	22	48.60	12	57.29	26	14.29	21
	6	2.89	45	7.77	3	8.82	22	48.72	13	57.03	23	14.50	21
	7	2.44	45	7.80	4	8.60	21	48.85	14	56.80	22	14.71	22
	8	1.99	47	7.84	4	8.39	22	48.99	16	56.58	22	14.93	24
	9	1.52	50	7.88	4	8.17	23	49.15	16	56.36	24	15.17	25
	10	1.02		7.92		7.94		49.31		56.12		15.42	
O. K.		+ 0ˢ.56 cos φ				+ 0ˢ.32 cos φ				+ 0ˢ.52 cos φ			
U. K.		— 0 .56 cos φ				— 0 .32 cos φ				— 0 .52 cos φ			

Obere Kulmination.

1912	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$14^h\ 43^m$		$-87°\ 48'$		$16^h\ 27^m$		$-86°\ 12'$		$18^h\ 3^m$		$-87°\ 40'$	
Aug. 10	$61^s.02$	53	$7''.92$	4	$67^s.94$	25	$49''.31$	17	$56^s.12$	27	$15''.42$	26
11	60.49	56	7.96	3	67.69	27	49.48	16	55.85	30	15.68	27
12	59.93	57	7.99	1	67.42	29	49.64	15	55.55	33	15.95	26
13	59.36	58	8.00	2	67.13	30	49.79	13	55.22	37	16.21	24
14	58.78	57	7.98	3	66.83	31	49.92	11	54.85	39	16.45	23
15	58.21	54	7.95	6	66.52	31	50.03	8	54.46	40	16.68	20
16	57.67	52	7.89	7	66.21	30	50.11	7	54.06	40	16.88	18
17	57.15	49	7.82	8	65.91	28	50.18	5	53.66	38	17.06	17
18	56.66	47	7.74	8	65.63	27	50.23	4	53.28	37	17.23	16
19	56.19	44	7.66	6	65.36	27	50.29	5	52.91	35	17.39	15
20	55.75	45	7.60	6	65.09	25	50.34	5	52.56	34	17.54	16
21	55.30	46	7.54	5	64.84	26	50.39	7	52.22	33	17.70	17
22	54.84	48	7.49	4	64.58	27	50.46	8	51.89	34	17.87	19
23	54.36	50	7.45	5	64.31	28	50.54	9	51.55	36	18.06	21
24	53.86	53	7.40	6	64.03	29	50.63	9	51.19	38	18.27	20
25	53.33	56	7.34	6	63.74	31	50.72	9	50.81	42	18.47	20
26	52.77	56	7.28	9	63.43	33	50.81	6	50.39	45	18.67	20
27	52.21	56	7.19	11	63.10	34	50.87	4	49.94	48	18.87	18
28	51.65	55	7.08	13	62.76	33	50.91	1	49.46	48	19.05	16
29	51.10	51	6.95	14	62.43	33	50.92	0	48.98	49	19.21	13
30	50.59	48	6.81	15	62.10	31	50.92	2	48.49	48	19.34	11
31	50.11	45	6.66	16	61.79	30	50.90	3	48.01	46	19.45	9
Sept. 1	49.66	42	6.50	15	61.49	28	50.87	3	47.55	44	19.54	9
2	49.24	40	6.35	14	61.21	27	50.84	3	47.11	41	19.63	9
3	48.84	40	6.21	13	60.94	26	50.81	2	46.70	40	19.72	9
4	48.44	41	6.08	12	60.68	25	50.79	1	46.30	38	19.81	11
5	48.03	43	5.96	11	60.43	27	50.80	2	45.92	39	19.92	13
6	47.60	45	5.85	11	60.16	27	50.82	2	45.53	41	20.05	13
7	47.15	47	5.74	12	59.89	30	50.84	1	45.12	45	20.18	13
8	46.68	48	5.62	13	59.59	32	50.85	1	44.67	47	20.31	13
9	46.20	49	5.49	16	59.27	32	50.84	2	44.20	49	20.44	12
10	45.71	49	5.33	18	58.95	33	50.82	4	43.71	52	20.56	9
11	45.22	46	5.15	21	58.62	33	50.78	6	43.19	53	20.65	8
12	44.76	44	4.94	21	58.29	32	50.72	8	42.66	53	20.73	5
13	44.32	40	4.73	22	57.97	30	50.64	11	42.13	52	20.78	3
14	43.92	36	4.51	23	57.67	28	50.53	11	41.61	49	20.81	2
15	43.56	34	4.28	21	57.39	27	50.42	11	41.12	48	20.83	1
16	43.22		4.07		57.12		50.31		40.64		20.84	
O. K.	$+0^s.56 \cos\varphi$				$+0^s.32 \cos\varphi$				$+0^s.52 \cos\varphi$			
U. K.	$-0.56 \cos\varphi$				$-0.32 \cos\varphi$				$-0.52 \cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7^m.				Octantis 26 G. $6^m - 7^m$.				χ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$14^h\ 43^m$		$-87°\ 47'$		$16^h\ 27^m$		$-86°\ 12'$		$18^h\ 3^m$		$-87°\ 40'$	
Sept. 16	$43^s.22$	33	$64''.07$	21	$57^s.12$	26	$50''.31$	10	$40^s.64$	45	$20''.84$	1
17	42.89	32	63.86	19	56.86	26	50.21	10	40.19	44	20.85	2
18	42.57	33	63.67	19	56.60	26	50.11	8	39.75	44	20.87	3
19	42.24	36	63.48	18	56.34	26	50.03	7	39.31	45	20.90	4
20	41.88	38	63.30	19	56.08	27	49.96	6	38.86	47	20.94	6
21	41.50	40	63.11	19	55.81	30	49.90	8	38.39	49	21.00	5
22	41.10	41	62.92	22	55.51	31	49.82	8	37.90	53	21.05	4
23	40.69	41	62.70	23	55.20	32	49.74	10	37.37	54	21.09	3
24	40.28	40	62.47	26	54.88	31	49.64	13	36.83	56	21.12	2
25	39.88	36	62.21	27	54.57	30	49.51	15	36.27	57	21.14	— 2
26	39.52	32	61.94	29	54.27	30	49.36	17	35.70	55	21.12	4
27	39.20	29	61.65	29	53.97	28	49.19	19	35.15	53	21.08	5
28	38.91	25	61.36	28	53.69	25	49.00	18	34.62	50	21.03	6
29	38.66	23	61.08	27	53.44	23	48.82	18	34.12	47	20.97	7
30	38.43	21	60.81	26	53.21	22	48.64	17	33.65	44	20.90	7
Okt. 1	38.22	21	60.55	24	52.99	22	48.47	16	33.21	43	20.83	6
2	38.01	23	60.31	22	52.77	21	48.31	15	32.78	42	20.77	5
3	37.78	24	60.09	23	52.56	22	48.16	15	32.36	43	20.72	4
4	37.54	26	59.86	23	52.34	23	48.01	14	31.93	46	20.68	2
5	37.28	28	59.63	24	52.11	25	47.87	14	31.47	48	20.66	2
6	37.00	29	59.39	26	51.86	26	47.73	16	30.99	49	20.64	5
7	36.71	28	59.13	28	51.60	26	47.57	18	30.50	52	20.59	6
8	36.43	25	58.85	30	51.34	27	47.39	20	29.98	53	20.53	8
9	36.18	22	58.55	31	51.07	25	47.19	22	29.45	52	20.45	11
10	35.96	18	58.24	31	50.82	24	46.97	24	28.93	51	20.34	13
11	35.78	14	57.93	32	50.58	22	46.73	25	28.42	49	20.21	13
12	35.64	11	57.61	32	50.36	19	46.48	26	27.93	45	20.08	15
13	35.53	10	57.29	30	50.17	18	46.22	25	27.48	43	19.93	16
14	35.43	8	56.99	30	49.99	16	45.97	23	27.05	42	19.77	14
15	35.35	8	56.69	27	49.83	17	45.74	22	26.63	40	19.63	14
16	35.27	10	56.42	27	49.66	17	45.52	21	26.23	40	19.49	12
17	35.17	13	56.15	27	49.49	18	45.31	21	25.83	42	19.37	11
18	35.04	14	55.88	27	49.31	19	45.10	20	25.41	43	19.26	11
19	34.90	15	55.61	28	49.12	20	44.90	22	24.98	44	19.15	11
20	34.75	15	55.33	30	48.92	21	44.68	22	24.54	48	19.04	13
21	34.60	14	55.03	32	48.71	21	44.46	25	24.06	49	18.91	14
22	34.46	11	54.71	33	48.50	20	44.21	27	23.57	48	18.77	16
23	34.35		54.38		48.30		43.94		23.09		18.61	
O. K.	$+ 0^s.56 \cos\varphi$				$+ 0^s.32 \cos\varphi$				$+ 0^s.52 \cos\varphi$			
U. K.	$- 0\ .56 \cos\varphi$				$- 0\ .32 \cos\varphi$				$- 0\ .52 \cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7^m.				Octantis 26 G. 6^m-7^m.				χ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$14^h\ 43^m$		$-87°\ 47'$		$16^h\ 27^m$		$-86°\ 12'$		$18^h\ 3^m$		$-87°\ 40'$	
Okt. 23	$34^s.35$	7	$54''.38$	34	$48^s.30$	18	$43''.94$	29	$23^s.09$	47	$18''.61$	19
24	34.28	3	54.04	35	48.12	17	43.65	30	22.62	45	18.42	21
25	34.25	1	53.69	35	47.95	15	43.35	31	22.17	42	18.21	22
26	34.26	4	53.34	33	47.80	11	43.04	30	21.75	39	17.99	22
27	34.30	6	53.01	30	47.69	10	42.74	29	21.36	35	17.77	23
28	34.36	8	52.71	30	47.59	9	42.45	27	21.01	33	17.54	21
29	34.44	7	52.41	28	47.50	9	42.18	27	20.68	31	17.33	21
30	34.51	5	52.13	27	47.41	9	41.91	25	20.37	30	17.12	19
31	34.56	4	51.86	27	47.32	10	41.66	24	20.07	31	16.93	18
Nov. 1	34.60	3	51.59	27	47.22	11	41.42	25	19.76	34	16.75	18
2	34.63	1	51.32	29	47.11	11	41.17	25	19.42	35	16.57	18
3	34.64	1	51.03	30	47.00	12	40.92	27	19.07	37	16.39	20
4	34.65	4	50.73	32	46.88	12	40.65	29	18.70	38	16.19	21
5	34.69	6	50.41	33	46.76	11	40.36	30	18.32	37	15.98	24
	34.75	10	50.08	34								
6	34.85	14	49.74	33	46.65	9	40.06	33	17.95	37	15.74	26
7	34.99	17	49.41	33	46.56	8	39.73	34	17.58	34	15.48	28
8	35.16	21	49.08	32	46.48	5	39.39	34	17.24	31	15.20	29
9	35.37	22	48.76	30	46.43	3	39.05	33	16.93	27	14.91	29
10	35.59	22	48.46	29	46.40	2	38.72	31	16.66	24	14.62	28
11	35.81	21	48.17	27	46.38	1	38.41	31	16.42	23	14.34	27
12	36.02	19	47.90	27	46.37	0	38.10	29	16.19	21	14.07	25
13	36.21	17	47.63	26	46.37	1	37.81	28	15.98	22	13.82	25
14	36.38	16	47.37	26	46.36	2	37.53	27	15.76	23	13.57	24
15	36.54	15	47.11	28	46.34	4	37.26	28	15.53	24	13.33	24
16	36.69	16	46.83	30	46.30	4	36.98	28	15.29	26	13.09	24
17	36.85	18	46.53	31	46.26	5	36.70	30	15.03	28	12.85	25
18	37.03	21	46.22	31	46.21	4	36.40	32	14.75	28	12.60	27
19	37.24	26	45.91	32	46.17	2	36.08	33	14.47	26	12.33	30
20	37.50	29	45.59	32	46.15	0	35.75	34	14.21	24	12.03	32
21	37.79	33	45.27	30	46.15	2	35.41	35	13.97	21	11.71	32
22	38.12	36	44.97	28	46.17	4	35.06	35	13.76	17	11.39	33
23	38.48	37	44.69	27	46.21	7	34.71	34	13.59	14	11.06	34
24	38.85	37	44.42	24	46.28	8	34.37	32	13.45	10	10.72	32
25	39.22	36	44.18	23	46.36	7	34.05	31	13.35	8	10.40	31
26	39.58	34	43.95	22	46.45	9	33.74	28	13.27	6	10.09	30
27	39.92	33	43.73	21	46.54	8	33.46	28	13.21	8	9.79	28
28	40.25		43.52		46.62		33.18		13.13		9.51	
O. K.	$+ 0^s.55 \cos\varphi$				$+ 0^s.32 \cos\varphi$				$+ 0^s.52 \cos\varphi$			
U. K.	$- 0\ .55 \cos\varphi$				$- 0\ .32 \cos\varphi$				$- 0\ .52 \cos\varphi$			

Obere Kulmination.

1912	Octantis 20 G. 7ᵐ. AR.		Octantis 20 G. 7ᵐ. Dekl.		Octantis 26 G. 6ᵐ–7ᵐ. AR.		Octantis 26 G. 6ᵐ–7ᵐ. Dekl.		χ Octantis. 6ᵐ. AR.		χ Octantis. 6ᵐ. Dekl.	
	$14^h\ 43^m$		$-87°\ 47'$		$16^h\ 27^m$		$-86°\ 12'$		$18^h\ 3^m$		$-87°\ 39'$	
Nov. 28	40.25	31	43.52	22	46.62	8	33.18	26	13.13	8	69.51	27
29	40.56	30	43.30	23	46.70	6	32.92	27	13.05	9	69.24	27
30	40.86	31	43.07	25	46.76	6	32.65	29	12.96	11	68.97	28
					46.82	6	32.36	29				
Dez. 1	41.17	34	42.82	26	46.88	7	32.07	32	12.85	12	68.69	30
2	41.51	37	42.56	27	46.95	7	31.75	32	12.73	12	68.39	31
3	41.88	40	42.29	27	47.02	10	31.43	33	12.61	10	68.08	33
4	42.28	44	42.02	26	47.12	13	31.10	34	12.51	9	67.75	35
5	42.72	48	41.76	25	47.25	14	30.76	34	12.42	6	67.40	35
6	43.20	49	41.51	23	47.39	16	30.42	32	12.36	1	67.05	36
7	43.69	50	41.28	21	47.55	17	30.10	31	12.35	1	66.69	36
8	44.19	49	41.07	19	47.72	18	29.79	28	12.36	4	66.33	34
9	44.68	47	40.88	17	47.90	17	29.51	26	12.40	5	65.99	33
10	45.15	45	40.71	17	48.07	15	29.25	26	12.45	6	65.66	31
11	45.60	42	40.54	17	48.22	15	28.99	25	12.51	6	65.35	30
12	46.02	42	40.37	17	48.37	14	28.74	26	12.57	5	65.05	29
13	46.44	41	40.20	19	48.51	13	28.48	26	12.62	2	64.76	29
14	46.85	42	40.01	20	48.64	14	28.22	28	12.64	1	64.47	30
15	47.27	45	39.81	20	48.78	15	27.94	30	12.65	0	64.17	32
16	47.72	49	39.61	22	48.93	17	27.64	31	12.65	2	63.85	33
17	48.21	52	39.39	21	49.10	19	27.33	31	12.67	3	63.52	34
18	48.73	56	39.18	19	49.29	21	27.02	31	12.70	6	63.18	35
19	49.29	58	38.99	18	49.50	23	26.71	30	12.76	11	62.83	36
20	49.87	60	38.81	16	49.73	24	26.41	28	12.87	13	62.47	37
21	50.47	61	38.65	14	49.97	26	26.13	26	13.00	17	62.10	35
22	51.08	59	38.51	11	50.23	27	25.87	24	13.17	21	61.75	34
									13.38	22	61.41	32
23	51.67	57	38.40	10	50.50	26	25.63	23	13.60	22	61.09	31
24	52.24	55	38.30	9	50.76	25	25.40	21	13.82	21	60.78	29
25	52.79	53	38.21	8	51.01	24	25.19	21	14.03	21	60.49	29
26	53.32	52	38.13	10	51.25	23	24.98	21	14.24	19	60.20	28
27	53.84	52	38.03	11	51.48	22	24.77	22	14.43	17	59.92	29
28	54.36	52	37.92	12	51.70	23	24.55	24	14.60	16	59.63	31
29	54.88	55	37.80	13	51.93	24	24.31	25	14.76	17	59.32	33
30	55.43	59	37.67	13	52.17	25	24.06	26	14.93	19	58.99	34
31	56.02	62	37.54	13	52.42	27	23.80	27	15.12	23	58.65	35
32	56.64	65	37.41	12	52.69	30	23.53	25	15.35	25	58.30	35
33	57.29		37.29		52.99		23.28		15.60		57.95	
O. K.	$+0^s.55 \cos\varphi$				$+0^s.32 \cos\varphi$				$+0^s.52 \cos\varphi$			
U. K.	$-0.55 \cos\varphi$				$-0.32 \cos\varphi$				$-0.52 \cos\varphi$			

Obere Kulmination.

1912	σ Octantis. 6^m.				β Octantis. 4^m–5^m.				τ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	19^h 18^m		−89° 14′		22^h 37^m		−81° 50′		23^h 15^m		−87° 58′	
Jan. 1	0.61	27	16.40	38	5.17	11	59.40	26	16.78	55	20.41	24
2	0.88	39	16.02	37	5.06	9	59.14	27	16.23	51	20.17	25
3	1.27	45	15.65	37	4.97	9	58.87	28	15.72	47	19.92	25
4	1.72	45	15.28	34	4.88	8	58.59	27	15.25	44	19.67	25
5	2.17	44	14.94	32	4.80	8	58.32	26	14.81	42	19.42	23
6	2.61	40	14.62	31	4.72	8	58.06	24	14.39	42	19.19	22
7	3.01	34	14.31	31	4.64	8	57.82	22	13.97	43	18.97	21
8	3.35	29	14.00	30	4.56	9	57.60	23	13.54	45	18.76	21
9	3.64	26	13.70	33	4.47	9	57.37	23	13.09	47	18.55	20
9	3.90	25	13.37	34								
10	4.15	29	13.03	37	4.38	10	57.14	24	12.62	51	18.35	22
11	4.44	37	12.66	37	4.28	10	56.90	25	12.11	53	18.13	23
12	4.81	46	12.29	38	4.18	9	56.65	28	11.58	53	17.90	25
13	5.27	57	11.91	36	4.09	10	56.37	30	11.05	51	17.65	27
14	5.84	67	11.55	38	3.99	10	56.07	32	10.54	49	17.38	29
15	6.51	75	11.17	36	3.89	9	55.75	32	10.05	46	17.09	30
16	7.26	81	10.81	33	3.80	6	55.43	32	9.59	42	16.79	30
17	8.07	81	10.48	32	3.74	5	55.11	32	9.17	37	16.49	31
18	8.88	80	10.16	31	3.69	6	54.79	30	8.80	35	16.18	29
19	9.68	75	9.85	29	3.63	5	54.49	29	8.45	33	15.89	28
20	10.43	70	9.56	30	3.58	6	54.20	29	8.12	33	15.61	27
21	11.13	66	9.26	30	3.52	5	53.91	27	7.79	33	15.34	28
22	11.79	64	8.96	31	3.47	5	53.64	28	7.46	36	15.06	26
23	12.43	66	8.65	34	3.42	7	53.36	29	7.10	39	14.80	26
24	13.09	72	8.31	35	3.35	7	53.07	29	6.71	41	14.54	28
25	13.81	81	7.96	35	3.28	7	52.78	32	6.30	42	14.26	30
26	14.62	92	7.61	37	3.21	7	52.46	34	5.88	42	13.96	32
27	15.54	104	7.24	36	3.14	6	52.12	36	5.46	40	13.64	34
28	16.58	114	6.88	35	3.08	6	51.76	37	5.06	38	13.30	37
29	17.72	123	6.53	33	3.02	5	51.39	38	4.68	33	12.93	37
30	18.95	125	6.20	31	2.97	3	51.01	38	4.35	29	12.56	37
31	20.20	124	5.89	29	2.94	3	50.63	37	4.06	25	12.19	37
Febr. 1	21.44	120	5.60	28	2.91	2	50.26	35	3.81	22	11.82	36
2	22.64	115	5.32	26	2.89	2	49.91	34	3.59	21	11.46	34
3	23.79	109	5.06	27	2.87	1	49.57	33	3.38	20	11.12	33
4	24.88	103	4.79	28	2.86	3	49.24	32	3.18	22	10.79	32
5	25.91	101	4.51	29	2.83	3	48.92	32	2.96	24	10.47	31
6	26.92		4.22		2.80		48.60		2.72		10.16	
O. K.	+ 1^s.60 cos φ				+ 0^s.15 cos φ				+ 0^s.60 cos φ			
U. K.	− 1 .60 cos φ				− 0 .15 cos φ				− 0 .60 cos φ			

Obere Kulmination.

1912	σ Octantis. 6^m. AR.		σ Octantis. 6^m. Dekl.		β Octantis. 4^m-5^m. AR.		β Octantis. 4^m-5^m. Dekl.		τ Octantis. 6^m. AR.		τ Octantis. 6^m. Dekl.	
	$19^h\ 18^m$		$-89°\ 13'$		$22^h\ 37^m$		$-81°\ 50'$		$23^h\ 14^m$		$-87°\ 57'$	
Febr. 6	26.92	104	64.22	30	2.80	4	48.60	33	62.72	27	70.16	32
7	27.96	109	63.92	32	2.76	3	48.27	34	62.45	29	69.84	34
8	29.05	115	63.60	33	2.73	4	47.93	35	62.16	31	69.50	34
9	30.20	125	63.27	33	2.69	4	47.58	38	61.85	29	69.16	36
10	31.45	137	62.94	31	2.65	3	47.20	38	61.56	27	68.80	38
11	32.82	145	62.63	30	2.62	2	46.82	40	61.29	24	68.42	40
12	34.27	149	62.33	29	2.60	1	46.42	41	61.05	20	68.02	40
13	35.76	151	62.04	26	2.59	0	46.01	39	60.85	15	67.62	40
14	37.27	150	61.78	24	2.59	1	45.62	38	60.70	12	67.22	39
15	38.77	146	61.54	24	2.60	0	45.24	37	60.58	9	66.83	38
16	40.23	140	61.30	23	2.60	2	44.87	35	60.49	8	66.45	36
17	41.63	134	61.07	22	2.62	1	44.52	35	60.41	9	66.09	35
18	42.97	129	60.85	24	2.63	1	44.17	33	60.32	10	65.74	34
19	44.26	129	60.61	24	2.64	1	43.84	34	60.22	12	65.40	34
20	45.55	133	60.37	27	2.63	0	43.50	35	60.10	14	65.06	35
21	46.88	140	60.10	28	2.63	0	43.15	37	59.96	17	64.71	37
22	48.28	150	59.82	28	2.63	1	42.78	38	59.79	18	64.34	38
23	49.78	161	59.54	28	2.62	1	42.40	40	59.61	17	63.96	40
24	51.39	171	59.26	26	2.61	1	42.00	41	59.44	13	63.56	42
25	53.10	178	59.00	25	2.62	2	41.59	42	59.31	9	63.14	43
26	54.88	183	58.75	23	2.64	2	41.17	43	59.22	5	62.71	43
27	56.71	183	58.52	21	{ 2.66 / 2.70	4 / 4	{ 40.74 / 40.33	41 / 40	59.17	1	62.28	43
28	58.54	179	58.31	19	2.74	5	39.93	39	59.16	2	61.85	41
29	60.33	172	58.12	17	2.79	5	39.54	37	59.18	5	61.44	41
März 1	62.05	165	57.95	18	2.84	4	39.17	36	59.23	6	61.03	38
2	63.70	159	57.77	18	2.88	4	38.81	34	59.29	4	60.65	37
3	65.29	154	57.59	18	2.92	4	38.47	35	59.33	2	60.28	37
4	66.83	153	57.41	21	2.96	3	38.12	36	59.35	0	59.91	35
5	68.36	155	57.20	22	2.99	2	37.76	36	59.35	2	59.56	37
6	69.91	162	56.98	22	3.01	2	37.40	39	59.33	4	59.19	38
7	71.53	170	56.76	22	3.03	3	37.01	40	59.29	4	58.81	40
8	73.23	179	56.54	22	3.06	4	36.61	41	{ 59.25 / 59.24	1 / 0	{ 58.41 / 58.01	40 / 42
9	75.02	188	56.32	21	3.10	5	36.20	41	59.24	4	57.59	42
10	76.90	194	56.11	19	3.15	6	35.79	40	59.28	9	57.17	43
11	78.84	194	55.92	16	3.21	7	35.39	39	59.37	13	56.74	41
12	80.78		55.76		3.28		35.00		59.50		56.33	
O. K.	$+1^s.59 \cos\varphi$				$+0^s.15 \cos\varphi$				$+0^s.60 \cos\varphi$			
U. K.	$-1\ .59 \cos\varphi$				$-0\ .15 \cos\varphi$				$-0\ .60 \cos\varphi$			

Obere Kulmination.

1912	σ Octantis. 6ᵐ. AR.	Diff.	σ Octantis. 6ᵐ. Dekl.	Diff.	β Octantis. 4ᵐ–5ᵐ. AR.	Diff.	β Octantis. 4ᵐ–5ᵐ. Dekl.	Diff.	τ Octantis. 6ᵐ. AR.	Diff.	τ Octantis. 6ᵐ. Dekl.	Diff.
	$19^h\ 19^m$		$-89°\ 13'$		$22^h\ 37^m$		$-81°\ 50'$		$23^h\ 14^m$		$-87°\ 57'$	
März 12	$20^s.78$	193	$55''.76$	14	$3^s.28$	8	$35''.00$	38	$59^s.50$	16	$56''.33$	40
13	22.71	190	55.62	12	3.36	7	34.62	36	59.66	18	55.93	39
14	24.61	183	55.50	12	3.43	8	34.26	35	59.84	17	55.54	38
15	26.44	175	55.38	11	3.51	8	33.91	34	60.01	16	55.16	36
16	28.19	170	55.27	12	3.59	7	33.57	32	60.17	15	54.80	35
17	29.89	167	55.15	13	3.66	6	33.25	33	60.32	12	54.45	35
18	31.56	167	55.02	15	3.72	5	32.92	35	60.44	9	54.10	37
19	33.23	171	54.87	16	3.77	6	32.57	36	60.53	9	53.73	38
20	34.94	179	54.71	16	3.83	6	32.21	38	60.62	10	53.35	39
21	36.73	189	54.55	16	3.89	6	31.83	39	60.72	11	52.96	40
22	38.62	199	54.39	16	3.95	8	31.44	40	60.83	14	52.56	42
23	40.61	206	54.23	13	4.03	8	31.04	40	60.97	19	52.14	43
24	42.67	210	54.10	12	4.11	9	30.64	40	61.16	23	51.71	42
25	44.77	211	53.98	10	4.20	11	30.24	38	61.39	27	51.29	41
26	46.88	208	53.88	7	4.31	10	29.86	37	61.66	29	50.88	40
27	48.96	202	53.81	7	4.41	11	29.49	34	61.95	31	50.48	37
28	50.98	194	53.74	6	4.52	11	29.15	33	62.26	30	50.11	36
29	52.92	185	53.68	5	4.63	9	28.82	32	62.56	28	49.75	34
30	54.77	179	53.63	6	4.72	10	28.50	30	62.84	26	49.41	34
31	56.56	175	53.57	7	4.82	9	28.20	31	63.10	23	49.07	33
April 1	58.31	175	53.50	8	4.91	9	27.89	33	63.33	21	48.74	35
2	60.06	179	53.42	9	5.00	8	27.56	34	63.54	21	48.39	35
3	61.85	185	53.33	10	5.08	8	27.22	35	63.75	22	48.04	38
4	63.70	194	53.23	10	5.16	10	26.87	35	63.97	23	47.66	38
5	65.64	200	53.13	8	5.26	10	26.52	36	64.20	26	47.28	39
6	67.64	206	53.05	7	5.36	11	26.16	36	64.46	31	46.89	39
7	69.70	210	52.98	4	5.47	12	25.80	35	64.77	36	46.50	38
8	71.80	208	52.94	2	5.59	13	25.45	33	65.13	39	46.12	36
9	73.88	203	52.92	0	5.72	13	25.12	31	65.52	41	45.76	35
10	75.91	195	52.92	1	5.85	13	24.81	29	65.93	41	45.41	33
11	77.86	188	52.93	2	5.98	13	24.52	27	66.34	40	45.08	31
12	79.74	181	52.95	2	6.11	13	24.25	27	66.74	38	44.77	30
13	81.55	174	52.97	0	6.24	11	23.98	27	67.12	36	44.47	31
14	83.29	172	52.97	1	6.35	11	23.71	27	67.48	33	44.16	30
15	85.01	175	52.96	3	6.46	11	23.44	29	67.81	31	43.86	31
16	86.76	181	52.93	3	6.57	11	23.15	30	68.12	31	43.55	33
17	88.57	188	52.90	3	6.68	12	22.85	31	68.43	33	43.22	34
18	90.45		52.87		6.80		22.54		68.76		42.88	
O. K.	$+1^s.59\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.60\cos\varphi$			
U. K.	$-1\ .59\cos\varphi$				$-0\ .15\cos\varphi$				$-0\ .60\cos\varphi$			

Obere Kulmination.

1912	σ Octantis. 6^m.				β Octantis. 4^m-5^m.				τ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$19^h\ 20^m$		$-89°\ 13'$		$22^h\ 37^m$		$-81°\ 50'$		$23^h\ 15^m$		$-87°\ 57'$	
April 18	$30^s.45$	197	$52''.87$	3	$6^s.80$	12	$22''.54$	33	$8^s.76$	35	$42''.88$	35
19	32.42	204	52.84	1	6.92	13	22.21	33	9.11	38	42.53	36
20	34.46	210	52.83	1	7.05	13	21.88	32	9.49	43	42.17	35
21	36.56	211	52.84	3	7.18	15	21.56	30	9.92	47	41.82	35
22	38.67	207	52.87	5	7.33	15	21.26	28	10.39	50	41.47	33
23	40.74	200	52.92	7	7.48	16	20.98	27	10.89	52	41.14	32
24	42.74	193	52.99	8	7.64	15	20.71	26	11.41	51	40.82	29
25	44.67	184	53.07	8	7.79	15	20.45	23	11.92	49	40.53	27
26	46.51	175	53.15	8	7.94	14	20.22	22	12.41	47	40.26	26
27	48.26	169	53.23	6	8.08	15	20.00	22	12.88	45	40.00	26
28	49.95	166	53.29	5	8.23	13	19.78	23	13.33	42	39.74	26
29	51.61	167	53.34	4	8.36	12	19.55	23	13.75	40	39.48	27
30	53.28	173	53.38	4	8.48	14	19.32	25	14.15	40	39.21	28
Mai 1	55.01	180	53.42	3	8.62	13	19.07	26	14.55	41	38.93	28
2	56.81	186	53.45	4	8.75	14	18.81	26	14.96	44	38.65	30
3	58.67	191	53.49	6	8.89	15	18.55	26	15.40	49	38.35	29
4	60.58	193	53.55	8	9.04	16	18.29	25	15.89	53	38.06	29
5	62.51	193	53.63	10	9.20	16	18.04	24	16.42	56	37.77	28
6	64.44	189	53.73	13	9.36	17	17.80	22	16.98	58	37.49	25
7	66.33	182	53.86	14	9.53	17	17.58	19	17.56	59	37.24	24
8	68.15	172	54.00	15	9.70	16	17.39	17	18.15	58	37.00	22
9	69.87	163	54.15	14	9.86	17	17.22	16	18.73	57	36.78	20
10	71.50	156	54.29	15	10.03	16	17.06	16	19.30	55	36.58	20
11	73.06	151	54.44	13	10.19	14	16.90	16	19.85	51	36.38	20
12	74.57	151	54.57	11	10.33	14	16.74	17	20.36	48	36.18	20
13	76.08	153	54.68	10	10.47	14	16.57	18	20.84	47	35.98	21
14	77.61	159	54.78	9	10.61	14	16.39	19	21.31	47	35.77	22
15	79.20	167	54.87	10	10.75	15	16.20	20	21.78	49	35.55	24
16	80.87	174	54.97	10	10.90	16	16.00	21	22.27	52	35.31	25
17	82.61	180	55.07	12	11.06	16	15.79	20	22.79	57	35.06	24
18	84.41	182	55.19	15	11.22	17	15.59	20	23.36	61	34.82	24
19	86.23	180	55.34	16	11.39	18	15.39	17	23.97	63	34.58	22
20	88.03	173	55.50	19	11.57	18	15.22	15	24.60	65	34.36	20
21	89.76	164	55.69	19	11.75	19	15.07	13	25.25	65	34.16	17
22	91.40	154	55.88	21	11.94	18	14.94	11	25.90	64	33.99	16
23	92.94	144	56.09	20	12.12	17	14.83	10	26.54	62	33.83	14
24	94.38	137	56.29	20	12.29	16	14.73	10	27.16	58	33.69	14
25	95.75		56.49		12.45		14.63		27.74		33.55	
O. K.	$+1^s.59\cos\varphi$				$+0^s.15\cos\varphi$				$+0^s.60\cos\varphi$			
U. K.	$-1.59\cos\varphi$				$-0.15\cos\varphi$				$-0.60\cos\varphi$			

Obere Kulmination.

1912	σ Octantis. 6ᵐ.				β Octantis. 4ᵐ–5ᵐ.				τ Octantis. 6ᵐ.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	19ʰ 21ᵐ		−89° 13′		22ʰ 37ᵐ		−81° 50′		23ʰ 15ᵐ		−87° 57′	
	s		″		s		″		s		″	
Mai 25	35.75	132	56.49	18	12.45	16	14.63	9	27.74	55	33.55	13
26	37.07	130	56.67	16	12.61	15	14.54	10	28.29	53	33.42	14
27	38.37	133	56.83	16	12.76	14	14.44	12	28.82	51	33.28	15
28	39.70	138	56.99	15	12.90	16	14.32	12	29.33	53	33.13	16
29	41.08	143	57.14	15	13.06	16	14.20	13	29.86	55	32.97	16
30	42.51	149	57.29	17	13.22	16	14.07	13	30.41	58	32.81	17
31	44.00	151	57.46	19	13.38	17	13.94	12	30.99	62	32.64	16
Juni 1	45.51	152	57.65	21	13.55	18	13.82	10	31.61	65	32.48	15
2	47.03	148	57.86	24	13.73	18	13.72	9	32.26	67	32.33	13
3	48.51	139	58.10	24	13.91	19	13.63	7	32.93	68	32.20	11
4	49.90	130	58.34	26	14.10	18	13.56	4	33.61	68	32.09	9
5	51.20	121	58.60	26	14.28	18	13.52	3	34.29	67	32.00	7
6	52.41	111	58.86	25	14.46	17	13.49	0	34.96	63	31.93	6
7	53.52	105	59.11	24	14.63	16	13.49	1	35.59	60	31.87	5
8	54.57	102	59.35	23	14.79	15	13.48	2	36.19	56	31.82	6
9	55.59	102	59.58	21	14.94	15	13.46	3	36.75	55	31.76	7
10	56.61	106	59.79	21	15.09	15	13.43	5	37.30	54	31.69	7
11	57.67	113	60.00	20	15.24	16	13.38	6	37.84	55	31.62	10
12	58.80	120	60.20	20	15.40	15	13.32	6	38.39	57	31.52	10
13	60.00	125	60.40	22	15.55	16	13.26	6	38.96	61	31.42	10
14	61.25	127	60.62	24	15.71	18	13.20	5	39.57	64	31.32	9
15	62.52	126	60.86	25	15.89	19	13.15	4	40.21	67	31.23	8
16	63.78	121	61.11	27	16.08	19	13.11	1	40.88	69	31.15	5
17	64.99	112	61.38	29	16.27	18	13.10	0	41.57	70	31.10	5
18	66.11	101	61.67	30	16.45	17	13.10	3	42.27	69	31.05	2
19	67.12	91	61.97	30	16.62	17	13.13	4	42.96	66	31.03	0
20	68.03	81	62.27	28	16.79	17	13.17	5	43.62	63	31.03	1
21	68.84	73	62.55	28	16.96	15	13.22	5	44.25	59	31.04	2
22	69.57	69	62.83	26	17.11	15	13.27	5	44.84	56	31.06	2
23	70.26	70	63.09	24	17.26	14	13.32	4	45.40	54	31.08	1
24	70.96	74	63.33	24	17.40	14	13.36	2	45.94	54	31.09	1
25	71.70	79	63.57	24	17.54	15	13.38	2	46.48	55	31.08	1
26	72.49	84	63.81	24	17.69	15	13.40	2	47.03	57	31.07	2
27	73.33	88	64.05	26	17.84	15	13.42	2	47.60	60	31.05	1
28	74.21	87	64.31	28	17.99	17	13.44	4	48.20	63	31.04	1
29	75.08	84	64.59	30	18.16	17	13.48	6	48.83	66	31.03	1
30	75.92	79	64.89	32	18.33	17	13.54	7	49.49	67	31.04	4
Juli 1	76.71		65.21		18.50		13.61		50.16		31.08	
O. K.	+ 1″.59 cos φ				+ 0″.15 cos φ				+ 0″.60 cos φ			
U. K.	− 1 .59 cos φ				− 0 .15 cos φ				− 0 .60 cos φ			

Obere Kulmination.

1912	σ Octantis. 6ᵐ. AR.		σ Octantis. 6ᵐ. Dekl.		β Octantis. 4ᵐ–5ᵐ. AR.		β Octantis. 4ᵐ–5ᵐ. Dekl.		τ Octantis. 6ᵐ. AR.		τ Octantis. 6ᵐ. Dekl.	
	19ʰ 22ᵐ		−89° 14′		22ʰ 37ᵐ		−81° 50′		23ʰ 15ᵐ		−87° 57′	
Juli 1	16.71	69	5.21	33	18.50	17	13.61	10	50.16	67	31.08	6
2	17.40	55	5.54	33	18.67	16	13.71	12	50.83	65	31.14	7
3	17.95	46	5.87	33	18.83	16	13.83	13	51.48	62	31.21	9
4	18.41	38	6.20	31	18.99	14	13.96	13	52.10	58	31.30	10
5	18.79	33	6.51	30	19.13	14	14.09	13	52.68	55	31.49	9
6	19.12	31	6.81	28	19.27	14	14.22	12	53.23	52	31.49	10
7	19.43	34	7.09	27	19.41	12	14.34	11	53.75	50	31.59	8
8	19.77	39	7.36	26	19.53	12	14.45	9	54.25	50	31.67	6
9	20.16	45	7.62	26	19.65	13	14.54	9	54.75	51	31.73	6
10	20.61	50	7.88	27	19.78	14	14.63	8	55.26	54	31.79	6
11	21.11	55	8.15	28	19.92	14	14.71	9	55.80	57	31.85	6
12	21.66	54	8.43	30	20.06	15	14.80	10	56.37	60	31.91	6
13	22.20	50	8.73	32	20.21	15	14.90	12	56.97	61	31.97	7
14	22.70	42	9.05	33	20.36	16	15.02	14	57.58	62	32.04	11
15	23.12	31	9.38	34	20.52	15	15.16	16	58.20	61	32.15	12
16	23.43	20	9.72	34	20.67	14	15.32	18	58.81	59	32.27	15
17	23.63	9	10.06	33	20.81	13	15.50	19	59.40	56	32.42	17
18	23.72	0	10.39	32	20.94	13	15.69	19	59.96	51	32.59	16
19	23.72	5	10.71	31	21.07	12	15.88	19	60.47	48	32.75	17
20	23.67	7	11.02	28	21.19	10	16.07	18	60.95	45	32.92	15
21	23.60	5	11.30	27	21.29	10	16.25	16	61.40	44	33.07	15
22	23.55	0	11.57	27	21.39	11	16.41	16	61.84	43	33.22	14
23	23.55	5	11.84	26	21.50	11	16.57	16	62.27	45	33.36	13
24	23.60	8	12.10	28	21.61	10	16.73	16	62.72	47	33.49	13
25	23.68	10	12.38	29	21.71	12	16.89	16	63.19	51	33.62	14
26	23.78	8	12.67	30	21.83	12	17.05	18	63.70	52	33.76	15
27	23.86	2	12.97	33	21.95	13	17.23	20	64.22	53	33.91	17
28	23.88	7	13.30	35	22.08	13	17.43	21	64.75	53	34.08	19
29	23.81	17	13.65	34	22.21	11	17.64	24	65.28	52	34.27	20
30	23.64	29	13.99	34	22.32	11	17.88	25	65.80	49	34.47	23
31	23.35	38	14.33	32	22.43	10	18.13	26	66.29	46	34.70	23
Aug. 1	22.97	45	14.65	31	22.53	9	18.39	26	66.75	41	34.93	24
2	22.52	49	14.96	29	22.62	7	18.65	24	67.16	37	35.17	23
3	22.03	48	15.25	27	22.69	8	18.89	24	67.53	35	35.40	22
4	21.55	43	15.52	26	22.77	7	19.13	22	67.88	34	35.62	20
5	21.12	37	15.78	25	22.84	7	19.35	20	68.22	34	35.82	20
6	20.75	31	16.03	25	22.91	9	19.55	19	68.56	35	36.02	18
7	20.44		16.28		23.00		19.74		68.91		36.20	
O. K.	+ 1ˢ.60 cos φ				+ 0ˢ.15 cos φ				+ 0ˢ.60 cos φ			
U. K.	− 1 .60 cos φ				− 0 .15 cos φ				− 0 .60 cos φ			

Obere Kulmination.

1912	σ Octantis. 6^m. AR.		σ Octantis. Dekl.		β Octantis. 4^m-5^m. AR.		β Octantis. Dekl.		τ Octantis. 6^m. AR.		τ Octantis. Dekl.	
	$19^h\ 21^m$		$-89°\ 14'$		$22^h\ 37^m$		$-81°\ 50'$		$23^h\ 16^m$		$-87°\ 57'$	
Aug. 7	80.44	26	16.28	27	23.00	8	19.74	20	8.91	37	36.20	18
8	80.18	26	16.55	28	23.08	9	19.94	21	9.28	41	36.38	19
9	79.92	28	16.83	30	23.17	9	20.15	23	9.69	42	36.57	21
10	79.64	33	17.13	30	23.26	10	20.38	24	10.11	43	36.78	21
11	79.31	44	17.43	32	23.36	9	20.62	26	10.54	42	36.99	24
12	78.87	55	17.75	32	23.45	9	20.88	28	10.96	41	37.23	26
13	78.32	66	18.07	31	23.54	7	21.16	29	11.37	37	37.49	28
14	77.66	76	18.38	29	23.61	7	21.45	29	11.74	33	37.77	28
15	76.90	81	18.67	27	23.68	5	21.74	29	12.07	28	38.05	28
16	76.09	85	18.94	25	23.73	5	22.03	29	12.35	24	38.33	28
17	75.24	84	19.19	24	23.78	4	22.32	26	12.59	22	38.61	27
18	74.40	80	19.43	22	23.82	4	22.58	26	12.81	21	38.88	24
19	73.60	75	19.65	22	23.86	4	22.84	24	13.02	23	39.12	24
20	72.85	70	19.87	23	23.90	5	23.08	24	13.25	23	39.36	24
21	72.15	67	20.10	23	23.95	5	23.32	25	13.48	25	39.60	24
22	71.48	68	20.33	25	24.00	5	23.57	25	13.73	27	39.84	25
23	70.80	72	20.58	27	24.05	5	23.82	28	14.00	29	40.09	25
24	70.08	79	20.85	27	24.10	6	24.10	29	14.29	30	40.34	28
25	69.29	88	21.12	28	24.16	5	24.39	31	14.59	28	40.62	30
26	68.41	100	21.40	28	24.21	5	24.70	32	14.87	25	40.92	31
27	67.41	110	21.68	27	24.26	3	25.02	32	15.12	22	41.23	32
28	66.31	116	21.95	24	24.29	2	25.34	33	15.34	18	41.55	33
29	65.15	119	22.19	23	24.31	1	25.67	32	15.52	13	41.88	32
30	63.96	120	22.42	21	24.32	0	25.99	31	15.65	9	42.20	31
31	62.76	117	22.63	18	24.32	0	26.30	28	15.74	8	42.51	29
Sept. 1	61.59	110	22.81	17	24.32	1	26.58	27	15.82	7	42.80	29
2	60.49	104	22.98	17	24.33	0	26.85	26	15.89	8	43.09	26
3	59.45	98	23.15	17	24.33	1	27.11	26	15.97	9	43.35	26
4	58.47	95	23.32	19	24.34	1	27.37	25	16.06	12	43.61	25
5	57.52	94	23.51	19	24.35	2	27.62	27	16.18	14	43.86	27
6	56.58	98	23.70	21	24.37	1	27.89	27	16.32	15	44.13	27
7	55.60	106	23.91	22	24.38	2	28.16	30	16.47	15	44.40	30
8	54.54	116	24.13	22	24.40	2	28.46	31	16.62	13	44.70	31
9	53.38	126	24.35	21	24.42	0	28.77	33	16.75	9	45.01	32
10	52.12	136	24.56	20	24.42	1	29.10	33	16.84	6	45.33	34
11	50.76	143	24.76	18	24.41	2	29.43	32	16.90	1	45.67	33
12	49.33	146	24.94	15	24.39	3	29.75	31	16.91	−4	46.00	32
13	47.87		25.09		24.36		30.06		16.87		46.32	
O. K.	$+ 1^s.61 \cos\varphi$				$+ 0^s.15 \cos\varphi$				$+ 0^s.60 \cos\varphi$			
U. K.	$- 1.61 \cos\varphi$				$- 0.15 \cos\varphi$				$- 0.60 \cos\varphi$			

Obere Kulmination.

1912	σ Octantis. 6^m. AR.		σ Octantis. Dekl.		β Octantis. 4^m–5^m. AR.		β Octantis. Dekl.		τ Octantis. 6^m. AR.		τ Octantis. Dekl.	
	19^h 20^m		−89° 14′		22^h 37^m		−81° 50′		23^h 16^m		−87° 57′	
Sept. 13	107.87 s	145	25.09 ″	14	24.36 s	4	30.06 ″	30	16.87 s	6	46.32 ″	31
14	106.42	141	25.23	12	24.32	3	30.36	28	16.81	8	46.63	30
15	105.01	135	25.35	11	24.29	4	30.64	26	16.73	9	46.93	29
16	103.66	129	25.46	10	24.25	4	30.90	26	16.64	8	47.22	27
17	102.37	124	25.56	12	24.21	3	31.16	26	16.56	5	47.49	27
18	101.13	123	25.68	12	24.18	2	31.42	26	16.51	3	47.76	27
19	99.90	123	25.80	14	24.16	2	31.68	28	16.48	1	48.03	29
20	98.67	128	25.94	14	24.14	2	31.96	29	16.47	1	48.32	30
21	97.39	136	26.08	16	24.12	2	32.25	30	16.46	1	48.62	31
22	96.03	147	26.24	15	24.10	3	32.55	32	16.45	4	48.93	33
23	94.56	155	26.39	14	24.07	4	32.87	32	16.41	8	49.26	34
24	93.01	162	26.53	13	24.03	5	33.19	32	16.33	12	49.60	35
25	91.39	166	26.66	10	23.98	6	33.51	31	16.21	16	49.95	33
26	89.73	167	26.76	7	23.92	7	33.82	30	16.05	20	50.28	33
27	88.06	163	26.83	5	23.85	8	34.12	28	15.85	23	50.61	30
28	86.43	156	26.88	3	23.77	8	34.40	25	15.62	25	50.91	28
29	84.87	147	26.91	3	23.69	7	34.65	24	15.37	23	51.19	27
30	83.40	140	26.94	3	23.62	6	34.89	23	15.14	22	51.46	25
Okt. 1	82.00	135	26.97	3	23.56	7	35.12	22	14.92	20	51.71	25
2	80.65	131	27.00	5	23.49	6	35.34	23	14.72	17	51.96	24
3	79.34	132	27.05	5	23.43	5	35.57	24	14.55	16	52.20	26
4	78.02	137	27.10	7	23.38	6	35.81	25	14.39	16	52.46	26
5	76.65	145	27.17	6	23.32	7	36.06	26	14.23	17	52.72	29
6	75.20	153	27.23	7	23.25	6	36.32	28	14.06	20	53.01	30
7	73.67	162	27.30	5	23.19	8	36.60	27	13.86	23	53.31	30
8	72.05	168	27.35	3	23.11	8	36.87	27	13.63	27	53.61	30
9	70.37	172	27.38	1	23.03	10	37.14	27	13.36	32	53.91	29
10	68.65	171	27.39	2	22.93	11	37.41	25	13.04	36	54.20	29
11	66.94	166	27.37	4	22.82	11	37.66	22	12.68	38	54.49	26
12	65.28	159	27.33	5	22.71	10	37.88	21	12.30	38	54.75	25
13	63.69	151	27.28	6	22.61	10	38.09	20	11.92	37	55.00	23
14	62.18	145	27.22	6	22.51	10	38.29	19	11.55	36	55.23	22
15	60.73	140	27.16	4	22.41	10	38.48	19	11.19	34	55.45	22
16	59.33	137	27.12	4	22.31	9	38.67	19	10.85	31	55.67	20
17	57.96	140	27.08	2	22.22	8	38.86	20	10.54	30	55.87	23
18	56.56	145	27.06	1	22.14	9	39.06	21	10.24	30	56.10	25
19	55.11	151	27.05	2	22.05	9	39.27	23	9.94	31	56.35	25
20	53.60		27.03		21.96		39.50		9.63		56.60	
O. K.	+ 1^s.61 cos φ				+ 0^s.15 cos φ				+ 0^s.60 cos φ			
U. K.	− 1 .61 cos φ				− 0 .15 cos φ				− 0 .60 cos φ			

Obere Kulmination.

1912	σ Octantis. 6^m.				β Octantis. 4^m–5^m.				τ Octantis. 6^m.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
	$19^h\ 20^m$		$-89°\ 14'$		$22^h\ 37^m$		$-81°\ 50'$		$23^h\ 15^m$		$-87°\ 57'$	
Okt. 20	53.60	160	27.03	2	21.96	10	39.50	24	69.63	34	56.60	27
21	52.00	166	27.01	4	21.86	11	39.74	23	69.29	39	56.87	26
22	50.34	170	26.97	6	21.75	12	39.97	22	68.90	43	57.13	26
23	48.64	170	26.91	8	21.63	12	40.19	21	68.47	46	57.39	25
24	46.94	166	26.83	11	21.51	14	40.40	19	68.01	49	57.64	23
25	45.28	160	26.72	12	21.37	14	40.59	16	67.52	51	57.87	21
26	43.68	150	26.60	14	21.23	13	40.75	13	67.01	51	58.08	19
27	42.18	140	26.46	14	21.10	13	40.88	13	66.50	49	58.27	16
28	40.78	131	26.32	14	20.97	12	41.01	12	66.01	47	58.43	15
29	39.47	125	26.18	13	20.85	11	41.13	11	65.54	44	58.58	16
30	38.22	122	26.05	12	20.74	11	41.24	12	65.10	42	58.74	15
31	37.00	124	25.93	10	20.63	10	41.36	13	64.68	41	58.89	16
Nov. 1	35.76	129	25.83	11	20.53	11	41.49	14	64.27	41	59.05	16
2	34.47	136	25.72	10	20.42	12	41.63	15	63.86	42	59.21	18
3	33.11	143	25.62	12	20.30	12	41.78	15	63.44	45	59.39	19
4	31.68	148	25.50	13	20.18	13	41.93	15	62.99	50	59.58	19
5	30.20	151	25.37	15	20.05	14	42.08	14	62.49	54	59.77	18
6	28.69	151	25.22	17	19.91	15	42.22	12	61.95	57	59.95	18
7	27.18	146	25.05	20	19.76	15	42.34	11	61.38	59	60.13	15
8	25.72	137	24.85	21	19.61	15	42.45	8	60.79	60	60.28	13
9	24.35	128	24.64	21	19.46	15	42.53	6	60.19	60	60.41	11
10	23.07	119	24.43	23	19.31	15	42.59	6	59.59	58	60.52	9
11	21.88	112	24.20	21	19.16	14	42.65	4	59.01	56	60.61	8
12	20.76	107	23.99	20	19.02	12	42.69	4	58.45	52	60.69	8
13	19.69	106	23.79	19	18.90	11	42.73	5	57.93	49	60.77	9
14	18.63	109	23.60	18	18.79	12	42.78	7	57.44	48	60.86	10
15	17.54	113	23.42	17	18.67	13	42.85	7	56.96	49	60.96	11
16	16.41	119	23.25	18	18.54	13	42.92	8	56.47	51	61.07	11
17	15.22	125	23.07	18	18.41	13	43.00	8	55.96	55	61.18	12
18	13.97	129	22.89	21	18.28	15	43.08	7	55.41	58	61.30	12
19	12.68	129	22.68	23	18.13	15	43.15	6	54.83	62	61.42	9
20	11.39	125	22.45	25	17.98	15	43.21	4	54.21	64	61.53	8
21	10.14	118	22.20	27	17.83	16	43.25	2	53.57	66	61.61	7
22	8.96	107	21.93	29	17.67	16	43.27	1	52.91	66	61.68	4
23	7.89	95	21.64	29	17.51	15	43.26	3	52.25	65	61.72	1
24	6.94	84	21.35	28	17.36	14	43.23	3	51.60	61	61.73	0
25	6.10	76	21.07	28	17.22	14	43.20	5	50.99	58	61.73	1
26	5.34		20.79		17.08		43.15		50.41		61.72	
O. K.	+ $1^s.61 \cos\varphi$				+ $0^s.15 \cos\varphi$				+ $0^s.60 \cos\varphi$			
U. K.	— $1.61 \cos\varphi$				— $0.15 \cos\varphi$				— $0.60 \cos\varphi$			

Obere Kulmination.

1912	σ Octantis. 6ᵐ. AR.	Diff.	σ Octantis. Dekl.	Diff.	β Octantis. 4ᵐ–5ᵐ. AR.	Diff.	β Octantis. Dekl.	Diff.	τ Octantis. 6ᵐ. AR.	Diff.	τ Octantis. Dekl.	Diff.
	19ʰ 19ᵐ		−89° 14′		22ʰ 37ᵐ		−81° 50′		23ʰ 15ᵐ		−87° 57′	
Nov. 26	65.34	71	20.79	27	17.08	13	43.15	5	50.41	56	61.72	0
27	64.63	69	20.52	25	16.95	12	43.10	4	49.85	53	61.72	1
28	63.94	72	20.27	24	16.83	12	43.06	3	49.32	52	61.71	0
29	63.22	77	20.03	24	16.71	12	43.03	2	48.80	53	61.71	1
30	62.45	82	19.79	24	16.59	13	43.01	1	48.27	54	61.72	2
Dez. 1	61.63	87	19.55	25	16.46	14	43.00	1	47.73	58	61.74	2
2	60.76	90	19.30	28	16.32	14	42.99	2	47.15	61	61.76	2
3	59.86	89	19.02	29	16.18	16	42.97	3	46.54	64	61.78	1
4	58.97	85	18.73	32	16.02	14	42.94	6	45.90	67	61.79	2
5	58.12	77	18.41	33	15.88	16	42.88	9	45.23	67	61.77	4
6	57.35	67	18.08	34	15.72	14	42.79	10	44.56	67	61.73	5
7	56.68	56	17.74	34	15.58	14	42.69	12	43.89	65	61.68	8
8	56.12	47	17.40	33	15.44	14	42.57	14	43.24	62	61.60	9
9	55.65	40	17.07	32	15.30	14	42.43	13	42.62	58	61.51	9
10	55.25	36	16.75	31	15.16	12	42.30	12	42.04	55	61.42	9
11	54.89	36	16.44	29	15.04	11	42.18	11	41.49	54	61.33	8
12	54.53	39	16.15	29	14.93	11	42.07	10	40.95	52	61.25	7
13	54.14	44	15.86	27	14.82	12	41.97	9	40.43	52	61.18	7
14	53.70	50	15.59	29	14.70	12	41.88	9	39.91	55	61.11	5
15	53.20	53	15.30	29	14.58	13	41.79	10	39.36	58	61.06	6
16	52.67	54	15.01	32	14.45	13	41.69	11	38.78	61	61.00	6
17	52.13	51	14.69	33	14.32	14	41.58	12	38.17	64	60.94	8
18	51.62	45	14.36	36	14.18	14	41.46	14	37.53	65	60.86	11
19	51.17	34	14.00	36	14.04	14	41.32	17	36.88	65	60.75	13
20	50.83	22	13.64	38	13.90	14	41.15	19	36.23	64	60.62	15
21	50.61	10	13.26	38	13.76	12	40.96	21	35.59	61	60.47	17
22	50.51	0	12.88	36	13.64	12	40.75	22	34.98	57	60.30	18
23	50.51	8	12.52	35	13.52	11	40.53	21	34.41	53	60.12	19
24	50.59	11	12.17	33	13.41	11	40.32	21	33.88	50	59.93	18
25	50.70	11	11.84	32	13.30	10	40.11	20	33.38	49	59.75	17
26	50.81	9	11.52	30	13.20	9	39.91	19	32.89	48	59.58	17
27	50.90	3	11.22	31	13.11	10	39.72	18	32.41	49	59.41	16
28	50.93	2	10.91	31	13.01	10	39.54	18	31.92	50	59.25	15
29	50.91	6	10.60	33	12.91	11	39.36	18	31.42	53	59.10	15
30	50.85	7	10.27	35	12.80	12	39.18	20	30.89	56	58.95	16
31	50.78	3	9.92	36	12.68	12	38.98	21	30.33	59	58.79	18
32	50.75	5	9.56	38	12.56	12	38.77	23	29.74	59	58.61	19
33	50.80		9.18		12.44		38.54		29.15		58.42	
O. K.	+ 1ˢ.60 cos φ				+ 0ˢ.15 cos φ				+ 0ˢ.60 cos φ			
U. K.	— 1 .60 cos φ				— 0 .15 cos φ				— 0 .60 cos φ			

1912	α Andromed. $2^m.1$.				β Cassiopej. $2^m.2$.				ε Phoenicis. $3^m.8$.				γ Pegasi. $2^m.7$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +	
	$0^h\ 3^m$		28° 36′		$0^h\ 4^m$		58° 39′		$0^h\ 4^m$		46° 13′		$0^h\ 8^m$		14° 41′	
Jan. 1	49.21	13	22.2	9	26.80	31	65.6	7	56.64	18	77.3	4	41.39	10	40.6	8
11	49.08	13	21.3	11	26.49	29	64.9	12	56.46	17	76.9	9	41.29	10	39.8	8
21	48.95	11	20.2	13	26.20	27	63.7	17	56.29	15	76.0	13	41.19	10	39.0	10
31	48.84	9	18.9	15	25.93	23	62.0	20	56.14	12	74.7	17	41.09	7	38.0	10
Febr. 10	48.75	7	17.4	16	25.70	19	60.0	24	56.02	9	73.0	21	41.02	6	37.0	9
20	48.68	4	15.8	16	25.51	12	57.6	26	55.93	5	70.9	25	40.96	3	36.1	9
März 1	48.64	0	14.2	14	25.39	6	55.0	26	55.88	1	68.4	26	40.93	1	35.2	8
11	48.64	4	12.8	14	25.33	2	52.4	27	55.87	4	65.8	29	40.94	3	34.4	5
21	48.68	10	11.4	12	25.35	12	49.7	27	55.91	10	62.9	34	40.97	9	33.9	4
31	[21] 48.78	13	10.2	8	[21] 25.47	19	47.0	22	[21] 56.01	14	59.5	31	[22] 41.06	13	33.5	0
April 10	48.91	19	9.4	5	25.66	26	44.8	19	56.15	20	56.4	32	41.19	16	33.5	2
20	49.10	22	8.9	1	25.92	33	42.9	15	56.35	25	53.2	32	41.35	21	33.7	7
30	49.32	27	8.8	3	26.25	40	41.4	10	56.60	29	50.0	30	41.56	24	34.4	9
Mai 10	49.59	30	9.1	6	26.65	44	40.4	5	56.89	33	47.0	29	41.80	28	35.3	12
20	49.89	32	9.7	11	27.09	49	39.9	0	57.22	37	44.1	27	42.08	30	36.5	15
30	50.21	35	10.8	14	27.58	51	39.9	6	57.59	40	41.4	23	42.38	32	38.0	17
Juni 9	50.56	35	12.2	17	28.09	51	40.5	11	57.99	41	39.1	20	42.70	33	39.7	19
19	50.91	35	13.9	20	28.60	51	41.6	16	58.40	42	37.1	16	43.03	33	41.6	21
29	51.26	34	15.9	23	29.11	50	43.2	20	58.82	42	35.5	12	43.36	33	43.7	22
Juli 9	51.60	33	18.2	24	29.61	47	45.2	24	59.24	40	34.3	7	43.69	31	45.9	23
19	51.93	30	20.6	25	30.08	43	47.6	27	59.64	37	33.6	2	44.00	28	48.2	22
29	52.23	27	23.1	26	30.51	38	50.3	30	60.01	34	33.4	3	44.28	26	50.4	21
Aug. 8	52.50	23	25.7	25	30.89	33	53.3	33	60.35	30	33.7	7	44.54	23	52.5	21
18	52.73	20	28.2	25	31.22	26	56.6	33	60.65	24	34.4	12	44.77	19	54.6	19
28	52.93	15	30.7	25	31.48	21	59.9	35	60.89	19	35.6	15	44.96	15	56.5	17
Sept. 7	53.08	11	33.2	22	31.69	15	63.4	35	61.08	14	37.1	18	45.11	12	58.2	16
17	53.19	8	35.4	21	31.84	7	66.9	34	61.22	9	38.9	21	45.23	8	59.8	13
27	53.27	3	37.5	19	31.91	2	70.3	33	61.31	1	41.0	22	45.31	4	61.1	11
Okt. 7	53.30	0	39.4	17	31.93	4	73.6	31	61.32	3	43.2	23	45.35	1	62.2	9
17	53.30	3	41.1	14	31.89	9	76.7	28	61.29	8	45.5	22	45.36	2	63.1	6
27	53.27	5	42.5	11	31.80	15	79.5	25	61.21	12	47.7	21	45.34	4	63.7	5
Nov. 6	53.22	8	43.6	9	31.65	19	82.0	21	61.09	15	49.8	18	45.30	7	64.2	2
16	53.14	10	44.5	5	31.46	23	84.1	17	60.94	17	51.6	16	45.23	8	64.4	0
26	53.04	12	45.0	2	31.23	26	85.8	12	60.77	19	53.2	12	45.15	9	64.4	2
Dez. 6	52.92	12	45.2	1	30.97	29	87.0	7	60.58	20	54.4	7	45.06	10	64.2	4
16	52.80	13	45.1	4	30.68	30	87.7	1	60.38	20	55.1	3	44.96	11	63.8	6
26	52.67	13	44.7	8	30.38	30	87.8	4	60.18	19	55.4	2	44.85	10	63.2	7
36	52.54		43.9		30.08		87.4		59.99		55.2		44.75		62.5	
Mittl. Ort	50.15		16.6		28.45		51.8		56.82		59.0		42.14		39.5	
	1)				2)				3)				7)			

1912	ι Ceti. $3^m.5$. AR. $0^h\ 14^m$		Dekl. $9°\ 18'$	
Jan. 1	56.17	10	49.4	5
11	56.07	10	49.9	3
21	55.97	8	50.2	1
31	55.89	7	50.3	0
Febr. 10	55.82	5	50.3	2
20	55.77	3	50.1	4
März 1	55.74	0	49.7	7
11	55.74	3	49.0	9
21	55.77	8	48.1	12
31	^{21}55.85	12	46.9	14
April 10	55.97	15	45.5	16
20	56.12	20	43.9	18
30	56.32	23	42.1	20
Mai 10	56.55	26	40.1	21
20	56.81	29	38.0	22
30	57.10	31	35.8	22
Juni 9	57.41	32	33.6	21
19	57.73	33	31.5	21
29	58.06	32	29.4	20
Juli 9	58.38	31	27.4	18
19	58.69	29	25.6	15
29	58.98	27	24.1	13
Aug. 8	59.25	23	22.8	10
18	59.48	20	21.8	7
28	59.68	16	21.1	5
Sept. 7	59.84	12	20.6	1
17	59.96	8	20.5	1
27	60.04	5	20.6	4
Okt. 7	60.09	2	21.0	5
17	60.11	2	21.5	7
27	60.09	4	22.2	8
Nov. 6	60.05	6	23.0	8
16	59.99	8	23.8	9
26	59.91	9	24.7	8
Dez. 6	59.82	9	25.5	7
16	59.73	11	26.2	7
26	59.62	10	26.9	5
36	59.52		27.4	
Mittl. Ort	56.66		42.3	
	9)			

1912	ζ Tucanae. $4^m.2$. AR. $0^h\ 15^m$		Dekl. $65°\ 23'$	
Jan. 1	29.91	39	52.6	8
11	29.52	36	51.8	14
21	29.16	32	50.4	20
31	28.84	27	48.4	24
Febr. 10	28.57	21	46.0	28
20	28.36	15	43.2	32
März 1	28.21	7	40.0	34
11	28.14	0	36.6	36
21	28.14	9	33.0	41
31	^{24}28.23	17	28.9	37
April 10	28.40	25	25.2	37
20	28.65	33	21.5	36
30	28.98	41	17.9	33
Mai 10	29.39	47	14.6	31
20	29.86	53	11.5	28
30	30.39	57	8.7	23
Juni 9	30.96	60	6.4	19
19	31.56	63	4.5	13
29	32.19	62	3.2	9
Juli 9	32.81	61	2.3	3
19	33.42	57	2.0	3
29	33.99	52	2.3	8
Aug. 8	34.51	47	3.1	13
18	34.98	38	4.4	18
28	35.36	30	6.2	22
Sept. 7	35.66	22	8.4	24
17	35.88	11	10.8	27
27	35.99	2	13.5	29
Okt. 7	36.01	8	16.4	27
17	35.93	16	19.1	27
27	35.77	23	21.8	24
Nov. 6	35.54	30	24.2	20
16	35.24	35	26.2	17
26	34.89	38	27.9	11
Dez. 6	34.51	40	29.0	6
16	34.11	41	29.6	0
26	33.70	40	29.6	6
36	33.30		29.0	
Mittl. Ort	29.51		31.3	
	10)			

1912	β Hydri. $2^m.8$. AR. $0^h\ 21^m$		Dekl. $77°\ 44'$	
Jan. 1	10.17	87	81.8	12
11	9.30	82	80.6	17
21	8.48	74	78.9	22
31	7.74	64	76.7	27
Febr. 10	7.10	51	74.0	32
20	6.59	38	70.8	34
März 1	6.21	24	67.4	37
11	5.97	9	63.7	38
21	5.88	8	59.9	43
31	^{26}5.96	24	55.6	39
April 10	6.20	39	51.7	38
20	6.59	54	47.9	36
30	7.13	69	44.3	33
Mai 10	7.82	80	41.0	31
20	8.62	92	37.9	26
30	9.54	101	35.3	22
Juni 9	10.55	106	33.1	17
19	11.61	111	31.4	12
29	12.72	112	30.2	5
Juli 9	13.84	109	29.7	0
19	14.93	104	29.7	5
29	15.97	96	30.2	12
Aug. 8	16.93	85	31.4	16
18	17.78	71	33.0	21
28	18.49	55	35.1	25
Sept. 7	19.04	37	37.6	27
17	19.41	19	40.3	30
27	19.60	1	43.3	30
Okt. 7	19.59	19	46.3	29
17	19.40	36	49.2	28
27	19.04	53	52.0	25
Nov. 6	18.51	66	54.5	21
16	17.85	78	56.6	16
26	17.07	85	58.2	11
Dez. 6	16.22	90	59.3	4
16	15.32	92	59.7	1
26	14.40	90	59.6	8
36	13.50		58.8	
Mittl. Ort	8.63		59.4	
	11)			

1912	α Phoenicis. $2^m.3$. AR. $0^h\ 21^m$		Dekl. $42°\ 46'$	
Jan. 1	56.08	17	79.3	1
11	55.91	17	79.2	7
21	55.74	15	78.5	10
31	55.59	13	77.5	15
Febr. 10	55.46	10	76.0	18
20	55.36	7	74.2	22
März 1	55.29	3	72.0	25
11	55.26	2	69.5	27
21	55.28	7	66.8	32
31	^{26}55.35	12	63.6	30
April 10	55.47	16	60.6	32
20	55.63	22	57.4	31
30	55.85	26	54.3	31
Mai 10	56.11	31	51.2	29
20	56.42	34	48.3	27
30	56.76	36	45.6	25
Juni 9	57.12	39	43.1	22
19	57.51	40	40.9	19
29	57.91	40	39.0	14
Juli 9	58.31	39	37.6	9
19	58.70	36	36.7	5
29	59.06	34	36.2	0
Aug. 8	59.40	30	36.2	5
18	59.70	25	36.7	9
28	59.95	20	37.6	13
Sept. 7	60.15	15	38.9	17
17	60.30	10	40.6	19
27	60.40	5	42.5	21
Okt. 7	60.45	1	44.6	22
17	60.44	4	46.8	22
27	60.40	9	49.0	21
Nov. 6	60.31	12	51.1	19
16	60.19	15	53.0	17
26	60.04	16	54.7	13
Dez. 6	59.88	18	56.0	10
16	59.70	20	57.0	5
26	59.50	20	57.5	0
36	59.30		57.5	
Mittl. Ort	56.16		62.3	
	12)			

1912	12 Ceti. 6ᵐ.1. AR.		12 Ceti. Dekl. −		ζ Cassiopej. 3ᵐ.8. AR.		ζ Cassiopej. Dekl. +	
	$0^h 25^m$		4° 26′		$0^h 32^m$		53° 24′	
Jan. 1	32.40	10	41.6	6	2.47	26	59.5	4
11	32.30	10	42.2	4	2.21	25	59.1	10
21	32.20	9	42.6	4	1.96	24	58.1	14
31	32.11	8	43.0	2	1.72	22	56.7	17
Febr. 10	32.03	6	43.2	0	1.50	18	55.0	20
20	31.97	4	43.2	2	1.32	13	53.0	23
März 1	31.93	1	43.0	3	1.19	8	50.7	24
11	31.92	3	42.7	6	1.11	2	48.3	24
21	31.95	7	42.1	10	1.09	6	45.9	25
31	[27] 32.02	10	41.1	11	[29] 1.15	13	43.4	21
April 10	32.12	15	40.0	13	1.28	20	41.3	18
20	32.27	18	38.7	16	1.48	27	39.5	15
30	32.45	23	37.1	17	1.75	32	38.0	10
Mai 10	32.68	25	35.4	20	2.07	38	37.0	5
20	32.93	28	33.4	20	2.45	42	36.5	1
30	33.21	31	31.4	21	2.87	44	36.4	4
Juni 9	33.52	32	29.3	22	3.31	47	36.8	10
19	33.84	32	27.1	21	3.78	47	37.8	14
29	34.16	32	25.0	20	4.25	46	39.2	18
Juli 9	34.48	31	23.0	19	4.71	44	41.0	21
19	34.79	30	21.1	18	5.15	42	43.1	25
29	35.09	27	19.3	14	5.57	38	45.6	28
Aug. 8	35.36	23	17.9	13	5.95	33	48.4	29
18	35.59	21	16.6	10	6.28	29	51.3	32
28	35.80	17	15.6	7	6.57	24	54.5	32
Sept. 7	35.97	13	14.9	4	6.81	18	57.7	32
17	36.10	9	14.5	2	6.99	13	60.9	33
27	36.19	6	14.3	1	7.12	7	64.2	31
Okt. 7	36.25	3	14.4	2	7.19	2	67.3	29
17	36.28	1	14.6	5	7.21	2	70.2	27
27	36.27	3	15.1	5	7.19	8	72.9	25
Nov. 6	36.24	5	15.6	7	7.11	11	75.4	21
16	36.19	7	16.3	7	7.00	16	77.5	17
26	36.12	8	17.0	7	6.84	19	79.2	13
Dez. 6	36.04	9	17.7	7	6.65	21	80.5	8
16	35.95	10	18.4	7	6.44	24	81.3	3
26	35.85	10	19.1	6	6.20	25	81.6	2
36	35.75		19.7		5.95		81.4	
Mittl. Ort	32.87		36.6		3.67		45.7	
	13)				17)			

1912	π Andromed. 4ᵐ.2. AR.		π Andromed. Dekl. +		δ Andromed. 3ᵐ.2. AR.		δ Andromed. Dekl. +	
	$0^h 32^m$		33° 13′		$0^h 34^m$		30° 22′	
Jan. 1	9.80	15	74.3	7	36.34	14	53.9	6
11	9.65	15	73.6	9	36.20	14	53.3	9
21	9.50	14	72.7	13	36.06	13	52.4	12
31	9.36	12	71.4	14	35.93	12	51.2	13
Febr. 10	9.24	10	70.0	15	35.81	10	49.9	15
20	9.14	8	68.5	17	35.71	6	48.4	15
März 1	9.06	3	66.8	16	35.65	4	46.9	15
11	9.03	1	65.2	16	35.61	1	45.4	14
21	9.04	6	63.6	15	35.62	6	44.0	13
31	[29] 9.10	11	62.1	11	[30] 35.68	10	42.7	10
April 10	9.21	16	61.0	8	35.78	16	41.7	7
20	9.37	21	60.2	5	35.94	20	41.0	3
30	9.58	25	59.7	0	36.14	25	40.7	0
Mai 10	9.83	29	59.7	3	36.39	28	40.7	4
20	10.12	32	60.0	7	36.67	32	41.1	8
30	10.44	35	60.7	10	36.99	34	41.9	12
Juni 9	10.79	36	61.7	14	37.33	35	43.1	15
19	11.15	37	63.1	18	37.68	36	44.6	18
29	11.52	36	64.9	21	38.04	35	46.4	20
Juli 9	11.88	35	67.0	22	38.39	35	48.4	22
19	12.23	33	69.2	25	38.74	32	50.6	24
29	12.56	30	71.7	25	39.06	30	53.0	25
Aug. 8	12.86	27	74.2	26	39.36	26	55.5	24
18	13.13	23	76.8	26	39.62	23	57.9	25
28	13.36	19	79.4	25	39.85	18	60.4	25
Sept. 7	13.55	15	81.9	25	40.03	15	62.9	23
17	13.70	11	84.4	23	40.18	11	65.2	22
27	13.81	7	86.7	22	40.29	8	67.4	20
Okt. 7	13.88	3	88.9	19	40.37	4	69.4	17
17	13.91	0	90.8	17	40.41	1	71.1	16
27	13.91	3	92.5	15	40.42	3	72.7	13
Nov. 6	13.88	6	94.0	12	40.39	5	74.0	11
16	13.82	8	95.2	8	40.34	8	75.1	7
26	13.74	11	96.0	6	40.26	10	75.8	5
Dez. 6	13.63	12	96.6	2	40.16	11	76.3	1
16	13.51	14	96.8	2	40.05	13	76.4	2
26	13.37	14	96.6	5	39.92	14	76.2	5
36	13.23		96.1		39.78		75.7	
Mittl. Ort	10.62		66.1		37.11		46.6	
	18)				20)			

1912	α Cassiopej. (2ᵐ.2) AR.	Δ	Dekl. +	Δ	β Ceti. 2ᵐ.2. AR.	Δ	Dekl.	Δ	21 Cassiopej. 5ᵐ.8. AR.	Δ	Dekl. +	Δ	ο Cassiopej. 4ᵐ.7. AR.	Δ	Dekl. +	Δ
	0ʰ 35ᵐ		56° 3′		0ʰ 39ᵐ		18° 27′		0ʰ 39ᵐ		74° 30′		0ʰ 39ᵐ		47° 48′	
Jan. 1	29.06	28	32.0	4	10.12	12	79.6	4	46.65	72	43.6	1	47.91	21	22.9	4
11	28.78	27	31.6	9	10.00	11	80.0	2	45.93	70	43.7	6	47.70	21	22.5	9
21	28.51	27	30.7	13	9.89	11	80.2	1	45.23	68	43.1	11	47.49	21	21.6	12
31	28.24	24	29.4	17	9.78	9	80.1	4	44.55	62	42.0	17	47.28	19	20.4	16
Febr. 10	28.00	21	27.7	21	9.69	8	79.7	6	43.93	52	40.3	22	47.09	16	18.8	19
20	27.79	15	25.6	23	9.61	5	79.1	9	43.41	42	38.1	25	46.93	11	16.9	21
März 1	27.64	9	23.3	24	9.56	3	78.2	12	42.99	29	35.6	28	46.82	7	14.8	22
11	27.55	3	20.9	25	9.53	1	77.0	14	42.70	15	32.8	29	46.75	2	12.6	22
21	27.52	5	18.4	27	9.54	4	75.6	17	42.55	1	29.9	29	46.73	4	10.4	20
31	27.57	13	15.7	22	9.58	10	73.9	21	42.56	20	27.0	30	46.77	12	8.4	21
April 10	27.70	20	13.5	19	9.68	13	71.8	21	42.76	33	24.0	26	46.89	17	6.3	16
20	27.90	27	11.6	16	9.81	18	69.7	22	43.09	47	21.4	22	47.06	24	4.7	12
30	28.17	34	10.0	11	9.99	21	67.5	24	43.56	60	19.2	19	47.30	29	3.5	8
Mai 10	28.51	40	8.9	7	10.20	25	65.1	24	44.16	71	17.3	14	47.59	33	2.7	4
20	28.91	44	8.2	2	10.45	28	62.7	25	44.87	80	15.9	8	47.92	38	2.3	1
30	29.35	47	8.0	3	10.73	31	60.2	24	45.67	86	15.1	3	48.30	41	2.4	5
Juni 9	29.82	48	8.3	8	11.04	32	57.8	23	46.53	89	14.8	2	48.71	42	2.9	10
19	30.30	50	9.1	13	11.36	34	55.5	21	47.42	91	15.0	8	49.13	43	3.9	14
29	30.80	48	10.4	17	11.70	33	53.4	20	48.33	90	15.8	13	49.56	43	5.3	18
Juli 9	31.28	48	12.1	21	12.03	32	51.4	16	49.23	87	17.1	18	49.99	41	7.1	21
19	31.76	44	14.2	24	12.35	31	49.8	14	50.10	82	18.9	22	50.40	38	9.2	25
29	32.20	40	16.6	28	12.66	29	48.4	10	50.92	74	21.1	27	50.78	36	11.7	26
Aug. 8	32.60	36	19.4	30	12.95	26	47.4	7	51.66	66	23.8	30	51.14	32	14.3	29
18	32.96	31	22.4	32	13.21	22	46.7	3	52.32	57	26.8	33	51.46	28	17.2	29
28	33.27	25	25.6	32	13.43	19	46.4	0	52.89	46	30.1	35	51.74	22	20.1	31
Sept. 7	33.52	19	28.8	33	13.62	15	46.4	4	53.35	35	33.6	37	51.96	18	23.2	30
17	33.71	14	32.1	33	13.77	10	46.8	6	53.70	24	37.3	37	52.14	14	26.2	30
27	33.85	9	35.4	33	13.87	7	47.4	9	53.94	12	41.0	38	52.28	8	29.2	28
Okt. 7	33.94	2	38.7	30	13.94	4	48.3	11	54.06	0	44.8	36	52.36	4	32.0	27
17	33.96	3	41.7	28	13.98	0	49.4	12	54.06	12	48.4	35	52.40	0	34.7	25
27	33.93	8	44.5	26	13.98	2	50.6	13	53.94	23	51.9	33	52.40	5	37.2	22
Nov. 6	33.85	12	47.1	23	13.96	5	51.9	13	53.71	35	55.2	29	52.35	8	39.4	20
16	33.73	17	49.4	18	13.91	8	53.2	12	53.36	44	58.1	26	52.27	12	41.4	15
26	33.56	20	51.2	14	13.83	9	54.4	11	52.92	53	60.7	21	52.15	15	42.9	12
Dez. 6	33.36	24	52.6	10	13.74	10	55.5	10	52.39	61	62.8	15	52.00	17	44.1	6
16	33.12	25	53.6	4	13.64	11	56.5	7	51.78	66	64.3	10	51.83	19	44.7	3
26	32.87	27	54.0	1	13.53	11	57.2	6	51.12	69	65.3	4	51.64	21	45.0	2
36	32.60		53.9		13.42		57.8		50.43		65.7		51.43		44.8	
Mittl. Ort	30.31		17.5		10.37		70.3		48.94		25.8		48.91		10.3	
	21)				22)				24)				25)			

1912	ζ Andromed. $4^m.1$ AR.		Dekl. +		γ Cassiopej. $2^m.0$ AR.		Dekl. +		μ Andromed. $3^m.9$ AR.		Dekl. +		α Sculptoris. $4^m.1$ AR.		Dekl. —	
	$0^h 42^m$		23° 47′		$0^h 51^m$		60° 14′		$0^h 51^m$		38° 1′		$0^h 54^m$		29° 49′	
Jan. 1	39.62	13	24.4	6	22.02	33	41.3	1	51.08	16	30.4	5	21.94	14	71.1	4
11	39.49	12	23.8	8	21.69	33	41.2	6	50.92	17	29.9	8	21.80	14	71.5	0
21	39.37	13	23.0	11	21.36	32	40.6	12	50.75	16	29.1	11	21.66	13	71.5	4
31	39.24	11	21.9	11	21.04	30	39.4	15	50.59	15	28.0	13	21.53	13	71.1	7
Febr. 10	39.13	9	20.8	12	20.74	26	37.9	20	50.44	13	26.7	16	21.40	10	70.4	11
20	39.04	6	19.6	12	20.48	20	35.9	22	50.31	10	25.1	17	21.30	8	69.3	15
März 1	38.98	4	18.4	12	20.28	14	33.7	25	50.21	6	23.4	18	21.22	6	67.8	17
11	38.94	0	17.2	10	20.14	7	31.2	26	50.15	2	21.6	17	21.16	2	66.1	20
21	38.94	4	16.2	8	20.07	1	28.6	26	50.13	3	19.9	16	21.14	3	64.1	23
31	38.98	10	15.4	7	20.08	12	26.0	26	50.16	10	18.3	15	21.17	8	61.8	27
April 10	39.08	14	14.7	4	20.20	19	23.4	21	50.26	14	16.8	12	21.25	11	59.1	27
20	39.22	19	14.3	0	20.39	27	21.3	18	50.40	20	15.6	8	21.36	16	56.4	28
30	39.41	23	14.3	4	20.66	35	19.5	14	50.60	25	14.8	4	21.52	20	53.6	28
Mai 10	39.64	26	14.7	6	21.01	42	18.1	10	50.85	29	14.4	1	21.72	25	50.8	28
20	39.90	30	15.3	10	21.43	46	17.1	5	51.14	33	14.3	4	21.97	29	48.0	28
30	40.20	32	16.3	14	21.89	51	16.6	0	51.47	35	14.7	8	22.26	31	45.2	26
Juni 9	40.52	34	17.7	16	22.40	53	16.6	4	51.82	37	15.5	11	22.57	33	42.6	24
19	40.86	35	19.3	18	22.93	54	17.0	10	52.19	39	16.6	15	22.90	35	40.2	22
29	41.21	34	21.1	20	23.47	54	18.0	15	52.58	38	18.1	19	23.25	35	38.0	19
Juli 9	41.55	33	23.1	22	24.01	53	19.5	19	52.96	37	20.0	20	23.60	35	36.1	15
19	41.88	31	25.3	22	24.54	50	21.4	22	53.33	36	22.0	24	23.95	33	34.6	12
29	42.19	29	27.5	23	25.04	46	23.6	26	53.69	33	24.4	24	24.28	31	33.4	7
Aug. 8	42.48	26	29.8	23	25.50	42	26.2	29	54.02	29	26.8	26	24.59	29	32.7	3
18	42.74	23	32.1	22	25.92	36	29.1	31	54.31	26	29.4	27	24.88	25	32.4	2
28	42.97	19	34.3	21	26.28	31	32.2	33	54.57	22	32.1	26	25.13	21	32.6	5
Sept. 7	43.16	16	36.4	20	26.59	25	35.5	33	54.79	18	34.7	26	25.34	17	33.1	9
17	43.32	11	38.4	18	26.84	18	38.8	34	54.97	14	37.3	26	25.51	13	34.0	13
27	43.43	8	40.2	17	27.02	12	42.2	34	55.11	10	39.9	24	25.64	9	35.3	15
Okt. 7	43.51	5	41.9	14	27.14	5	45.6	32	55.21	6	42.3	22	25.73	4	36.8	17
17	43.56	2	43.3	12	27.19	0	48.8	31	55.27	2	44.5	20	25.77	1	38.5	18
27	43.58	1	44.5	10	27.19	6	51.9	28	55.29	1	46.5	18	25.78	3	40.3	18
Nov. 6	43.57	4	45.5	7	27.13	12	54.7	25	55.28	5	48.3	15	25.75	6	42.1	18
16	43.53	7	46.2	5	27.01	18	57.2	21	55.23	7	49.8	11	25.69	8	43.9	16
26	43.46	8	46.7	2	26.83	22	59.3	18	55.16	10	50.9	9	25.61	10	45.5	15
Dez. 6	43.38	10	46.9	1	26.61	26	61.1	12	55.06	12	51.8	5	25.51	12	47.0	12
16	43.28	11	46.8	2	26.35	29	62.3	7	54.94	15	52.3	1	25.39	14	48.2	8
26	43.17	12	46.6	6	26.06	31	63.0	2	54.79	15	52.4	3	25.25	14	49.0	6
36	43.05		46.0		25.75		63.2		54.64		52.1		25.11		49.6	
Mittl. Ort	40.26		18.9		23.23		25.4		51.83		20.1		21.96		58.8	
	27)				32)				33)				35)			

1912	ε Piscium. $4^m.2$.				β Phoenicis. $3^m.2$.				β Andromed. $2^m.1$.				υ Piscium. $4^m.6$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +	
	$0^h\ 58^m$		$7°\ 24'$		$1^h\ 2^m$		$47°\ 10'$		$1^h\ 4^m$		$35°\ 9'$		$1^h\ 14^m$		$26°\ 48'$	
Jan. 1	22.08	11	60.0	6	9.80	21	100.4	3	47.40	15	25.2	3	37.08	12	13.9	5
11	21.97	11	59.4	6	9.59	22	100.7	5	47.25	16	24.9	7	36.96	14	13.4	6
21	21.86	11	58.8	6	9.37	20	100.2	8	47.09	16	24.2	10	36.82	14	12.8	9
31	21.75	10	58.2	6	9.17	19	99.4	14	46.93	15	23.2	13	36.68	13	11.9	9
Febr. 10	21.65	9	57.6	5	8.98	17	98.0	17	46.78	13	21.9	14	36.55	12	11.0	12
20	21.56	7	57.1	5	8.81	13	96.3	22	46.65	10	20.5	15	36.43	10	9.8	12
März 1	21.49	4	56.6	3	8.68	10	94.1	25	46.55	7	19.0	16	36.33	7	8.6	12
11	21.45	1	56.3	0	8.58	6	91.6	28	46.48	4	17.4	16	36.26	3	7.4	11
21	21.44	3	56.3	1	8.52	0	88.8	31	46.44	2	15.8	14	36.23	1	6.3	10
31	21.47	8	56.4	4	8.52	5	85.7	35	46.46	8	14.4	14	36.24	6	5.3	9
April 10	21.55	12	56.8	6	8.57	11	82.2	33	46.54	13	13.0	10	36.30	11	4.4	6
20	21.67	16	57.4	8	8.68	17	78.9	34	46.67	18	12.0	7	36.41	16	3.8	3
30	21.83	20	58.2	12	8.85	22	75.5	34	46.85	23	11.3	4	36.57	21	3.5	1
Mai 10	22.03	23	59.4	14	9.07	27	72.1	32	47.08	27	10.9	0	36.78	24	3.6	3
20	22.26	27	60.8	16	9.34	31	68.9	31	47.35	31	10.9	4	37.02	29	3.9	7
30	22.53	30	62.4	18	9.65	35	65.8	28	47.66	34	11.3	8	37.31	31	4.6	11
Juni 9	22.83	31	64.2	19	10.00	39	63.0	25	48.00	36	12.1	11	37.62	34	5.7	13
19	23.14	32	66.1	20	10.39	41	60.5	22	48.36	38	13.2	14	37.96	35	7.0	16
29	23.46	33	68.1	20	10.80	41	58.3	17	48.74	37	14.6	18	38.31	35	8.6	18
Juli 9	23.79	32	70.1	21	11.21	41	56.6	12	49.11	37	16.4	20	38.66	35	10.4	19
19	24.11	30	72.2	20	11.62	40	55.4	8	49.48	35	18.4	22	39.01	33	12.3	22
29	24.41	29	74.2	18	12.02	38	54.6	2	49.83	33	20.6	23	39.34	31	14.5	21
Aug. 8	24.70	26	76.0	17	12.40	34	54.4	4	50.16	30	22.9	25	39.65	29	16.6	22
18	24.96	23	77.7	16	12.74	31	54.8	8	50.46	27	25.4	25	39.94	26	18.8	22
28	25.19	20	79.3	13	13.05	26	55.6	12	50.73	23	27.9	24	40.20	23	21.0	22
Sept. 7	25.39	16	80.6	11	13.31	21	56.8	17	50.96	19	30.3	25	40.43	19	23.2	20
17	25.55	13	81.7	9	13.52	15	58.5	21	51.15	15	32.8	23	40.62	16	25.2	19
27	25.68	9	82.6	6	13.67	10	60.6	22	51.30	11	35.1	23	40.78	12	27.1	18
Okt. 7	25.77	6	83.2	4	13.77	4	62.8	25	51.41	8	37.4	20	40.90	8	28.9	15
17	25.83	3	83.6	2	13.81	1	65.3	25	51.49	4	39.4	19	40.98	5	30.4	14
27	25.86	0	83.8	1	13.80	5	67.8	24	51.53	0	41.3	16	41.03	2	31.8	12
Nov. 6	25.86	2	83.9	1	13.75	10	70.2	24	51.53	2	42.9	14	41.05	1	33.0	10
16	25.84	4	83.8	3	13.65	14	72.6	20	51.51	6	44.3	11	41.04	3	34.0	7
26	25.80	6	83.5	4	13.51	17	74.6	17	51.45	8	45.4	8	41.01	6	34.7	5
Dez. 6	25.74	8	83.1	4	13.34	19	76.3	14	51.37	11	46.2	4	40.95	9	35.2	1
16	25.66	9	82.7	6	13.15	21	77.7	9	51.26	13	46.6	2	40.86	10	35.3	0
26	25.57	10	82.1	6	12.94	21	78.6	4	51.13	14	46.8	2	40.76	12	35.3	3
36	25.47		81.5		12.73		79.0		50.99		46.6		40.64		35.0	
Mittl. Ort	22.46		59.7		9.44		83.9		48.02		15.4		37.55		6.3	
	36)				38)				42)				45)			

1912	ϑ Ceti. $3^m.4$. AR.		Dekl. −		δ Cassiopej. $2^m.7$. AR.		Dekl. +		η Piscium. $3^m.6$. AR.		Dekl. +		40 Cassiopej. $5^m.5$. AR.		Dekl. +	
	$1^h 19^m$		$8^\circ 37'$		$1^h 19^m$		$59^\circ 46'$		$1^h 26^m$		$14^\circ 53'$		$1^h 31^m$		$72^\circ 35'$	
Jan. 1	37.36	11	78.5	6	62.02	31	58.3	2	46.02	11	36.6	5	26.47	59	49.8	8
11	37.25	12	79.1	5	61.71	32	58.5	3	45.91	12	36.1	6	25.88	61	50.6	1
21	37.13	12	79.6	3	61.39	32	58.2	8	45.79	12	35.5	7	25.27	62	50.7	5
31	37.01	11	79.9	1	61.07	31	57.4	12	45.67	12	34.8	7	24.65	60	50.2	10
Febr. 10	36.90	10	80.0	1	60.76	29	56.2	17	45.55	11	34.1	7	24.05	55	49.2	16
20	36.80	8	79.9	3	60.47	24	54.5	20	45.44	9	33.4	7	23.50	48	47.6	20
März 1	36.72	7	79.6	6	60.23	18	52.5	22	45.35	7	32.7	6	23.02	38	45.6	24
11	36.65	3	79.0	8	60.05	11	50.3	25	45.28	4	32.1	5	22.64	27	43.2	26
21	36.62	1	78.2	10	59.94	4	47.8	24	45.24	0	31.6	4	22.37	14	40.6	27
31	36.63	4	77.2	13	59.90	5	45.4	24	45.24	4	31.2	1	22.23	0	37.9	28
April 10	36.67	10	75.9	17	59.95	15	43.0	25	45.28	10	31.1	1	22.23	17	35.1	29
20	36.77	13	74.2	18	60.10	22	40.5	19	45.38	14	31.2	4	22.40	30	32.2	25
30	36.90	18	72.4	19	60.32	31	38.6	17	45.52	18	31.6	7	22.70	43	29.7	21
Mai 10	37.08	22	70.5	21	60.63	38	36.9	12	45.70	22	32.3	9	23.13	54	27.6	18
20	37.30	24	68.4	22	61.01	43	35.7	7	45.92	26	33.2	12	23.67	64	25.8	14
30	37.54	28	66.2	22	61.44	48	35.0	3	46.18	29	34.4	14	24.31	72	24.4	9
Juni 9	37.82	30	64.0	22	61.92	52	34.7	1	46.47	31	35.8	16	25.03	79	23.5	3
19	38.12	32	61.8	22	62.44	54	34.8	6	46.78	32	37.4	18	25.82	82	23.2	1
29	38.44	32	59.6	21	62.98	55	35.4	11	47.10	33	39.2	19	26.64	84	23.3	6
Juli 9	38.76	32	57.5	19	63.53	54	36.5	16	47.43	33	41.1	20	27.48	85	23.9	12
19	39.08	32	55.6	17	64.07	52	38.1	20	47.76	32	43.1	20	28.33	82	25.1	16
29	39.40	29	53.9	15	64.59	49	40.1	23	48.08	31	45.1	19	29.15	78	26.7	21
Aug. 8	39.69	27	52.4	12	65.08	45	42.4	26	48.39	28	47.0	19	29.93	73	28.8	24
18	39.96	25	51.2	8	65.53	41	45.0	28	48.67	25	48.9	17	30.66	66	31.2	28
28	40.21	21	50.4	6	65.94	36	47.8	31	48.92	23	50.6	16	31.32	58	34.0	30
Sept. 7	40.42	18	49.8	2	66.30	30	50.9	32	49.15	19	52.2	15	31.90	51	37.0	34
17	40.60	15	49.6	1	66.60	24	54.1	32	49.34	16	53.7	12	32.41	40	40.4	34
27	40.75	11	49.7	4	66.84	19	57.3	32	49.50	13	54.9	11	32.81	31	43.8	36
Okt. 7	40.86	8	50.1	5	67.03	12	60.5	32	49.63	9	56.0	8	33.12	20	47.4	36
17	40.94	5	50.6	8	67.15	6	63.7	31	49.72	7	56.8	7	33.32	9	51.0	35
27	40.99	1	51.4	9	67.21	0	66.8	29	49.79	3	57.5	5	33.41	1	54.5	34
Nov. 6	41.00	1	52.3	9	67.21	6	69.7	26	49.82	1	58.0	2	33.40	12	57.9	31
16	40.99	3	53.2	11	67.15	12	72.3	23	49.83	2	58.2	1	33.28	23	61.0	29
26	40.96	6	54.3	10	67.03	17	74.6	19	49.81	5	58.3	0	33.05	33	63.9	25
Dez. 6	40.90	7	55.3	9	66.86	22	76.5	15	49.76	7	58.3	2	32.72	41	66.4	21
16	40.83	9	56.2	9	66.64	26	78.0	11	49.69	8	58.1	3	32.31	50	68.5	16
26	40.74	10	57.1	7	66.38	29	79.1	5	49.61	10	57.8	5	31.81	55	70.1	10
36	40.64		57.8		66.09		79.6		49.51		57.3		31.26		71.1	
Mittl. Ort	37.46		73.9		62.89		41.8		46.30		32.7		27.57		31.1	
	47)				48)				50)				51)			

1912	υ Persei. $3^m.6$ AR.	Δ	Dekl. +	Δ	α Eridani. 1^m AR.	Δ	Dekl. −	Δ	43 Cassiopej. $5^m.9$ AR.	Δ	Dekl. +	Δ	φ Persei. $4^m.1$ AR.	Δ	Dekl. +	Δ
	$1^h 32^m$		48° 10'		$1^h 34^m$		57° 40'		$1^h 35^m$		67° 35'		$1^h 38^m$		50° 14'	
Jan. 1	34.45	20	71.9	1	27.38	31	78.1	4	47.52	43	72.4	6	7.68	21	59.6	2
11	34.25	22	72.0	— 3	27.07	33	78.5	— 3	47.09	47	73.0	1	7.47	23	59.8	— 2
21	34.03	22	71.7	7	26.74	31	78.2	7	46.62	46	73.1	— 6	7.24	24	59.6	6
31	33.81	22	71.0	11	26.43	30	77.5	13	46.16	46	72.5	10	7.00	23	59.0	11
Febr. 10	33.59	20	69.9	15	26.13	28	76.2	19	45.70	42	71.5	15	6.77	22	57.9	14
20	33.39	18	68.4	17	25.85	25	74.3	23	45.28	36	70.0	19	6.55	19	56.5	17
März 1	33.21	14	66.7	19	25.60	20	72.0	26	44.92	29	68.1	23	6.36	15	54.8	19
11	33.07	8	64.8	20	25.40	15	69.4	30	44.63	21	65.8	25	6.21	10	52.9	20
21	32.99	3	62.8	20	25.25	9	66.4	33	44.42	10	63.3	26	6.11	4	50.9	21
31	32.96	— 3	60.8	19	25.16	3	63.1	35	44.32	0	60.7	26	6.07	— 2	48.8	20
April 10	32.99	11	58.9	19	25.13	— 5	59.6	40	44.32	13	58.1	28	6.09	11	46.8	20
20	(14) 33.10	18	57.0	15	(15) 25.18	12	55.6	36	(15) 44.45	24	55.3	24	(16) 6.20	17	44.8	16
30	33.28	23	55.5	12	25.30	19	52.0	37	44.69	35	52.9	20	6.37	23	43.2	13
Mai 10	33.51	29	54.3	8	25.49	25	48.3	35	45.04	44	50.9	17	6.60	30	41.9	10
20	33.80	34	53.5	4	25.74	32	44.8	34	45.48	52	49.2	12	6.90	34	40.9	5
30	34.14	38	53.1	0	26.06	37	41.4	30	46.00	59	48.0	7	7.24	39	40.4	1
Juni 9	34.52	41	53.1	5	26.43	42	38.4	28	46.59	64	47.3	3	7.63	42	40.3	— 3
19	34.93	43	53.6	8	26.85	46	35.6	23	47.23	67	47.0	— 3	8.05	44	40.6	7
29	35.36	44	54.4	12	27.31	47	33.3	19	47.90	68	47.3	7	8.49	45	41.3	11
Juli 9	35.80	43	55.6	16	27.78	49	31.4	14	48.58	69	48.0	12	8.94	45	42.4	15
19	36.23	42	57.2	19	28.27	49	30.0	8	49.27	67	49.2	16	9.39	44	43.9	19
29	36.65	41	59.1	22	28.76	47	29.2	2	49.94	64	50.8	21	9.83	42	45.8	21
Aug. 8	37.06	37	61.3	24	29.23	44	29.0	— 3	50.58	60	52.9	24	10.25	40	47.9	23
18	37.43	34	63.7	26	29.67	40	29.3	9	51.18	54	55.3	27	10.65	35	50.2	26
28	37.77	31	66.3	27	30.07	35	30.2	14	51.72	49	58.0	31	11.00	32	52.8	27
Sept. 7	38.08	26	69.0	28	30.42	29	31.6	19	52.21	42	61.1	32	11.32	28	55.5	28
17	38.34	21	71.8	28	30.71	23	33.5	23	52.63	34	64.3	33	11.60	23	58.3	29
27	38.55	17	74.6	27	30.94	16	35.8	26	52.97	27	67.6	34	11.83	19	61.2	28
Okt. 7	38.72	13	77.3	27	31.10	8	38.4	28	53.24	18	71.0	34	12.02	14	64.0	27
17	38.85	8	80.0	25	31.18	2	41.2	28	53.42	10	74.4	34	12.16	9	66.7	27
27	38.93	4	82.5	24	31.20	— 5	44.0	29	53.52	2	77.8	32	12.25	4	69.4	24
Nov. 6	38.97	0	84.9	21	31.15	11	46.9	27	53.54	— 6	81.0	30	12.29	0	71.8	23
16	38.97	5	87.0	19	31.04	17	49.6	25	53.48	15	84.0	28	12.29	4	74.1	20
26	38.92	9	88.9	15	30.87	22	52.1	21	53.33	22	86.8	23	12.25	9	76.1	16
Dez. 6	38.83	13	90.4	12	30.65	25	54.2	17	53.11	29	89.1	19	12.16	13	77.7	13
16	38.70	16	91.6	7	30.40	29	55.9	12	52.82	36	91.0	15	12.03	17	79.0	9
26	38.54	19	92.3	4	30.11	31	57.1	6	52.46	41	92.5	9	11.86	19	79.9	4
36	38.35		92.7		29.80		57.7		52.05		93.4		11.67		80.3	
Mittl. Ort	35.01		57.7		26.33		61.1		48.36		54.2		8.21		44.9	
	52)				54)				55)				57)			

1912	τ Ceti. $3^m.4$. AR.		Dekl. −		o Piscium. $4^m.3$. AR.		Dekl. +		Lac. ε Sculpt. $5^m.3$. AR.		Dekl. −		ζ Ceti. $3^m.5$. AR.		Dekl. −	
	$1^h 39^m$		16° 23′		$1^h 40^m$		8° 42′		$1^h 41^m$		25° 29′		$1^h 47^m$		10° 45′	
Jan. 1	58.89	12	68.7	8	44.53	10	56.8	5	31.66	13	41.4	8	7.04	11	74.3	8
11	58.77	13	69.5	5	44.43	12	56.3	6	31.53	14	42.2	4	6.93	12	75.1	5
21	58.64	13	70.0	1	44.31	12	55.7	6	31.39	15	42.6	0	6.81	13	75.6	4
31	58.51	14	70.1	1	44.19	12	55.1	5	31.24	14	42.6	3	6.68	12	76.0	1
Febr. 10	58.37	12	70.0	4	44.07	11	54.6	5	31.10	14	42.3	7	6.56	12	76.1	1
20	58.25	11	69.6	6	43.96	10	54.1	4	30.96	12	41.6	9	6.44	11	76.0	4
März 1	58.14	8	69.0	9	43.86	8	53.7	3	30.84	9	40.7	14	6.33	9	75.6	6
11	58.06	6	68.1	12	43.78	5	53.4	2	30.75	6	39.3	16	6.24	5	75.0	9
21	58.00	2	66.9	15	43.73	1	53.2	1	30.69	3	37.7	19	6.19	3	74.1	11
31	57.98	1	65.4	17	43.72	3	53.3	2	30.66	1	35.8	22	6.16	2	73.0	14
April 10	57.99	7	63.7	22	43.75	8	53.5	5	30.67	6	33.6	27	6.18	6	71.6	18
20	[16] 58.06	10	61.5	22	[17] 43.83	12	54.0	7	[17] 30.73	11	30.9	26	[18] 6.24	11	69.8	18
30	58.16	16	59.3	23	43.95	16	54.7	10	30.84	15	28.3	27	6.35	15	68.0	21
Mai 10	58.32	19	57.0	25	44.11	20	55.7	12	30.99	20	25.6	28	6.50	19	65.9	21
20	58.51	23	54.5	25	44.31	25	56.9	14	31.19	24	22.8	28	6.69	23	63.8	23
30	58.74	27	52.0	25	44.56	27	58.3	16	31.43	27	20.0	27	6.92	26	61.5	23
Juni 9	59.01	29	49.5	25	44.83	30	59.9	18	31.70	30	17.3	26	7.18	29	59.2	23
19	59.30	31	47.0	23	45.13	32	61.7	19	32.00	32	14.7	24	7.47	31	56.9	23
29	59.61	32	44.7	22	45.45	32	63.6	19	32.32	34	12.3	22	7.78	32	54.6	21
Juli 9	59.93	32	42.5	19	45.77	33	65.5	19	32.66	34	10.1	19	8.10	32	52.5	20
19	60.25	32	40.6	17	46.10	31	67.4	19	33.00	33	8.2	15	8.42	32	50.5	17
29	60.57	30	38.9	13	46.41	31	69.3	18	33.33	32	6.7	11	8.74	30	48.8	15
Aug. 8	60.87	29	37.6	10	46.72	28	71.1	17	33.65	30	5.6	7	9.04	29	47.3	11
18	61.16	26	36.6	7	47.00	26	72.8	16	33.95	27	4.9	2	9.33	26	46.2	8
28	61.42	22	35.9	2	47.26	23	74.4	13	34.22	24	4.7	1	9.59	24	45.4	5
Sept. 7	61.64	20	35.7	1	47.49	20	75.7	11	34.46	21	4.8	6	9.83	20	44.9	2
17	61.84	17	35.8	4	47.69	17	76.8	9	34.67	18	5.4	9	10.03	17	44.7	2
27	62.01	13	36.2	8	47.86	14	77.7	6	34.85	13	6.3	13	10.20	14	44.9	5
Okt. 7	62.14	9	37.0	10	48.00	11	78.3	5	34.98	10	7.6	15	10.34	11	45.4	7
17	62.23	6	38.0	12	48.11	7	78.8	3	35.08	6	9.1	17	10.45	8	46.1	9
27	62.29	3	39.2	14	48.18	5	79.1	0	35.14	3	10.8	18	10.53	4	47.0	11
Nov. 6	62.32	0	40.6	14	48.23	2	79.1	0	35.17	1	12.6	19	10.57	1	48.1	11
16	62.32	3	42.0	14	48.25	1	79.1	2	35.16	3	14.5	17	10.58	1	49.2	13
26	62.29	5	43.4	13	48.24	4	78.9	4	35.13	6	16.2	17	10.57	4	50.5	11
Dez. 6	62.24	8	44.7	12	48.20	5	78.5	4	35.07	9	17.9	14	10.53	6	51.6	11
16	62.16	10	45.9	10	48.15	8	78.1	5	34.98	11	19.3	12	10.47	9	52.7	10
26	62.06	11	46.9	8	48.07	9	77.6	5	34.87	13	20.5	9	10.38	10	53.7	8
36	61.95		47.7		47.98		77.1		34.74		21.4		10.28		54.5	
Mittl. Ort	58.79		62.5		44.68		54.6		31.43		32.4		6.96		70.2	
	59)				60)				61)				62)			

1912	ε Cassiopej. $3^m.3$ AR.		Dekl. +		α Trianguli. $3^m.5$ AR.		Dekl. +	
	$1^h\ 47^m$		63° 14′		$1^h\ 48^m$		29° 9′	
Jan. 1	62.44	34	31.5	7	3.39	12	10.9	1
11	62.10	37	32.2	1	3.27	14	10.8	5
21	61.73	38	32.3	4	3.13	15	10.3	6
31	61.35	37	31.9	9	2.98	15	9.7	9
Febr. 10	60.98	35	31.0	14	2.83	14	8.8	10
20	60.63	32	29.6	18	2.69	13	7.8	11
März 1	60.31	25	27.8	21	2.56	10	6.7	11
11	60.06	18	25.7	23	2.46	7	5.6	12
21	59.88	10	23.4	25	2.39	3	4.4	11
31	59.78	1	20.9	25	2.36	2	3.3	10
April 10	59.77	10	18.4	26	2.38	8	2.3	8
20	59.87	19	15.8	22	2.46	13	1.5	5
30	60.06	28	13.6	20	2.59	18	1.0	2
Mai 10	60.34	36	11.6	15	2.77	22	0.8	0
20	60.70	44	10.1	12	2.99	27	0.8	4
30	61.14	50	8.9	7	3.26	30	1.2	7
Juni 9	61.64	55	8.2	3	3.56	33	1.9	10
19	62.19	58	7.9	3	3.89	34	2.9	13
29	62.77	60	8.2	6	4.23	36	4.2	15
Juli 9	63.37	60	8.8	11	4.59	35	5.7	17
19	63.97	59	9.9	16	4.94	35	7.4	19
29	64.56	57	11.5	19	5.29	34	9.3	20
Aug. 8	65.13	53	13.4	23	5.63	32	11.3	20
18	65.66	49	15.7	26	5.95	29	13.3	21
28	66.15	44	18.3	29	6.24	26	15.4	21
Sept. 7	66.59	39	21.2	30	6.50	23	17.5	20
17	66.98	33	24.2	32	6.73	19	19.5	19
27	67.31	26	27.4	32	6.92	16	21.4	18
Okt. 7	67.57	20	30.6	32	7.08	13	23.2	16
17	67.77	13	33.8	32	7.21	9	24.8	15
27	67.90	6	37.0	31	7.30	6	26.3	13
Nov. 6	67.96	1	40.1	29	7.36	3	27.6	11
16	67.95	8	43.0	26	7.39	0	28.7	9
26	67.87	15	45.6	23	7.39	4	29.6	7
Dez. 6	67.72	21	47.9	18	7.35	6	30.3	4
16	67.51	27	49.7	14	7.29	9	30.7	2
26	67.24	32	51.1	10	7.20	12	30.9	1
36	66.92		52.1		7.08		30.8	
Mittl. Ort	63.03		13.9		3.66		1.8	
	63)				64)			

1912	ξ Piscium. $4^m.6$ AR.		Dekl. +		β Arietis. $2^m.7$ AR.		Dekl. +	
	$1^h\ 48^m$		2° 45′		$1^h\ 49^m$		20° 22′	
Jan. 1	59.85	10	12.7	6	46.33	11	48.1	4
11	59.75	12	12.1	6	46.22	12	47.7	5
21	59.63	12	11.5	5	46.10	14	47.2	6
31	59.51	12	11.0	4	45.96	13	46.6	7
Febr. 10	59.39	12	10.6	3	45.83	13	45.9	8
20	59.27	10	10.3	2	45.70	11	45.1	8
März 1	59.17	8	10.1	0	45.59	10	44.3	8
11	59.09	6	10.1	1	45.49	6	43.5	8
21	59.03	2	10.2	4	45.43	2	42.7	6
31	59.01	2	10.6	6	45.41	2	42.1	5
April 10	59.03	7	11.2	9	45.43	7	41.6	2
20	59.10	11	12.1	11	45.50	12	41.4	0
30	59.21	15	13.2	13	45.62	17	41.4	3
Mai 10	59.36	19	14.5	15	45.79	21	41.7	5
20	59.55	24	16.0	16	46.00	25	42.2	8
30	59.79	26	17.6	19	46.25	28	43.0	11
Juni 9	60.05	29	19.5	19	46.53	31	44.1	13
19	60.34	31	21.4	20	46.84	33	45.4	15
29	60.65	32	23.4	20	47.17	33	46.9	17
Juli 9	60.97	32	25.4	19	47.50	34	48.6	18
19	61.29	32	27.3	19	47.84	33	50.4	19
29	61.61	30	29.2	17	48.17	32	52.3	19
Aug. 8	61.91	28	30.9	15	48.49	30	54.2	19
18	62.19	26	32.4	13	48.79	28	56.1	19
28	62.45	24	33.7	10	49.07	25	58.0	17
Sept. 7	62.69	20	34.7	8	49.32	22	59.7	16
17	62.89	18	35.5	6	49.54	18	61.3	15
27	63.07	14	36.1	3	49.72	16	62.8	13
Okt. 7	63.21	11	36.4	1	49.88	12	64.1	11
17	63.32	9	36.5	1	50.00	9	65.2	10
27	63.41	5	36.4	3	50.09	6	66.2	8
Nov. 6	63.46	2	36.1	4	50.15	3	67.0	6
16	63.48	0	35.7	6	50.18	0	67.6	4
26	63.48	3	35.1	6	50.18	3	68.0	3
Dez. 6	63.45	5	34.5	6	50.15	5	68.3	0
16	63.40	7	33.9	7	50.10	8	68.3	1
26	63.33	10	33.2	6	50.02	9	68.2	2
36	63.23		32.6		49.93		68.0	
Mittl. Ort	59.89		12.3		46.52		41.7	
	65)				66)			

1912	ψ Phoenicis. 4m.5. AR.		Dekl. −		χ Eridani. 3m.6. AR.		Dekl. −		υ Ceti. 3m.9. AR.		Dekl. −		50 Cassiopej. 4m.0. AR.		Dekl. +	
	1h 50m		46° 43′		1h 52m		52° 2′		1h 55m		21° 29′		1h 55m		71° 59′	
Jan. 1	7.88 s	22	74.8″	7	32.94 s	25	63.7″	6	51.78 s	12	81.2″	8	53.11 s	53	64.7″	11
11	7.66	23	75.5	2	32.69	27	64.3	1	51.66	14	82.0	5	52.58	58	65.8	4
21	7.43	23	75.7	3	32.42	27	64.4	4	51.52	14	82.5	2	52.00	60	66.2	2
31	7.20	23	75.4	8	32.15	27	64.0	9	51.38	14	82.7	1	51.40	60	66.0	7
Febr. 10	6.97	22	74.6	13	31.88	25	63.1	16	51.24	14	82.6	4	50.80	56	65.3	13
20	6.75	19	73.3	18	31.63	22	61.5	19	51.10	12	82.2	8	50.24	50	64.0	17
März 1	6.56	16	71.5	22	31.41	19	59.6	23	50.98	11	81.4	11	49.74	42	62.3	22
11	6.40	13	69.3	25	31.22	15	57.3	27	50.87	7	80.3	14	49.32	32	60.1	24
21	6.27	8	66.8	29	31.07	10	54.6	30	50.80	4	78.9	17	49.00	19	57.7	26
31	6.19	2	63.9	31	30.97	4	51.6	33	50.76	0	77.2	19	48.81	7	55.1	27
April 10	6.17	3	60.8	35	30.93	2	48.3	34	50.76	4	75.3	22	48.74	8	52.4	27
20	[19] 6.20	9	57.3	34	[20] 30.95	9	44.9	39	[21] 50.80	10	73.1	26	[21] 48.82	23	49.7	28
30	6.29	15	53.9	35	31.04	15	41.0	36	50.90	14	70.5	25	49.05	35	46.9	23
Mai 10	6.44	20	50.4	34	31.19	20	37.4	35	51.04	18	68.0	27	49.40	47	44.6	19
20	6.64	26	47.0	33	31.39	28	33.9	34	51.22	23	65.3	27	49.87	59	42.7	16
30	6.90	30	43.7	31	31.67	32	30.5	32	51.45	26	62.6	26	50.46	67	41.1	11
Juni 9	7.20	34	40.6	29	31.99	36	27.3	30	51.71	28	60.0	26	51.13	74	40.0	7
19	7.54	38	37.7	26	32.35	40	24.3	25	51.99	31	57.4	24	51.87	78	39.3	2
29	7.92	39	35.1	21	32.75	42	21.8	21	52.30	32	55.0	23	52.65	83	39.1	4
Juli 9	8.31	40	33.0	17	33.17	44	19.7	17	52.62	34	52.7	19	53.48	83	39.5	8
19	8.71	40	31.3	12	33.61	44	18.0	11	52.96	32	50.8	17	54.31	82	40.3	13
29	9.11	39	30.1	7	34.05	42	16.9	6	53.28	32	49.1	12	55.13	80	41.6	18
Aug. 8	9.50	37	29.4	1	34.47	41	16.3	0	53.60	30	47.9	9	55.93	76	43.4	21
18	9.87	34	29.3	4	34.88	37	16.3	5	53.90	28	47.0	5	56.69	70	45.5	25
28	10.21	31	29.7	10	35.25	34	16.8	11	54.18	25	46.5	1	57.39	63	48.0	29
Sept. 7	10.52	26	30.7	14	35.59	28	17.9	16	54.43	22	46.4	4	58.02	56	50.9	30
17	10.78	21	32.1	18	35.87	23	19.5	20	54.65	18	46.8	7	58.58	47	53.9	33
27	10.99	15	33.9	22	36.10	18	21.5	24	54.83	15	47.5	11	59.05	38	57.2	34
Okt. 7	11.14	12	36.1	25	36.28	12	23.9	26	54.98	11	48.6	13	59.43	29	60.6	35
17	11.26	5	38.6	26	36.40	5	26.5	28	55.09	8	49.9	15	59.72	18	64.1	35
27	11.31	1	41.2	26	36.45	0	29.3	28	55.17	4	51.4	17	59.90	8	67.6	34
Nov. 6	11.32	4	43.8	27	36.45	5	32.1	27	55.21	2	53.1	17	59.98	3	71.0	32
16	11.28	9	46.5	24	36.40	11	34.8	25	55.23	2	54.8	17	59.95	14	74.2	31
26	11.19	13	48.9	22	36.29	15	37.3	23	55.21	5	56.5	16	59.81	24	77.3	26
Dez. 6	11.06	16	51.1	18	36.14	20	39.6	19	55.16	7	58.1	14	59.57	34	79.9	23
16	10.90	19	52.9	14	35.94	22	41.5	14	55.09	10	59.5	13	59.23	43	82.2	18
26	10.71	21	54.3	10	35.72	25	42.9	9	54.99	11	60.8	9	58.80	49	84.0	12
36	10.50		55.3		35.47		43.8		54.88		61.7		58.31		85.2	
Mittl. Ort	7.12		60.8		31.98		48.6		51.52		74.0		53.72		45.8	
		67)				68)				71)				70)		

1912	α Hydri. $2^m.9$. AR.	Δ	α Hydri. Dekl. −	Δ	γ Andromed. $2^m.1$. AR.	Δ	γ Andromed. Dekl. +	Δ	α Arietis. $2^m.0$. AR.	Δ	α Arietis. Dekl. +	Δ	β Trianguli. $3^m.0$. AR.	Δ	β Trianguli. Dekl. +	Δ
	$1^h 55^m$		61° 59′		$1^h 58^m$		41° 54′		$2^h 2^m$		23° 2′		$2^h 4^m$		34° 34′	
Jan. 1	61.34	38	68.8	6	29.20	16	41.2	2	12.40	11	56.0	3	17.93	13	28.4	1
11	60.96	39	69.4	1	29.04	18	41.4	1	12.29	12	55.7	4	17.80	15	28.5	2
21	60.57	39	69.3	6	28.86	19	41.3	5	12.17	14	55.3	6	17.65	16	28.3	5
31	60.18	38	68.7	11	28.67	19	40.8	8	12.03	14	54.7	6	17.49	17	27.8	8
Febr. 10	59.80	36	67.6	18	28.48	18	40.0	12	11.89	14	54.1	8	17.32	17	27.0	10
20	59.44	33	65.8	21	28.30	17	38.8	13	11.75	13	53.3	9	17.15	15	26.0	11
März 1	59.11	28	63.7	26	28.13	14	37.5	16	11.62	10	52.4	9	17.00	12	24.9	13
11	58.83	23	61.1	30	27.99	10	35.9	16	11.52	8	51.5	8	16.88	9	23.6	13
21	58.60	16	58.1	33	27.89	5	34.3	17	11.44	3	50.7	8	16.79	5	22.3	13
31	58.44	9	54.8	35	27.84	0	32.6	16	11.41	1	49.9	6	16.74	0	21.0	12
April 10	58.35	1	51.3	37	27.84	6	31.0	15	11.42	5	49.3	4	16.74	6	19.8	11
20	58.34	7	47.6	41	27.90	14	29.5	13	11.47	12	48.9	2	16.80	12	18.7	10
30	[21] 58.41	15	43.5	37	[21] 28.04	18	28.2	10	[22] 11.59	15	48.7	1	[23] 16.92	17	17.7	6
Mai 10	58.56	23	39.8	37	28.22	25	27.2	6	11.74	21	48.8	3	17.09	22	17.1	3
20	58.79	31	36.1	35	28.47	29	26.6	4	11.95	24	49.1	6	17.31	26	16.8	0
30	59.10	37	32.6	32	28.76	33	26.2	1	12.19	28	49.7	9	17.57	31	16.8	4
Juni 9	59.47	43	29.4	29	29.09	37	26.3	4	12.47	31	50.6	12	17.88	33	17.2	7
19	59.90	48	26.5	25	29.46	38	26.7	8	12.78	33	51.8	14	18.21	36	17.9	9
29	60.38	51	24.0	20	29.84	40	27.5	11	13.11	34	53.2	15	18.57	37	18.8	13
Juli 9	60.89	53	22.0	16	30.24	41	28.6	14	13.45	34	54.7	17	18.94	38	20.1	15
19	61.42	53	20.4	9	30.65	40	30.0	17	13.79	34	56.4	18	19.32	36	21.6	17
29	61.95	53	19.5	4	31.05	38	31.7	20	14.13	33	58.2	19	19.68	36	23.3	19
Aug. 8	62.48	51	19.1	2	31.43	36	33.7	21	14.46	31	60.1	18	20.04	34	25.2	20
18	62.99	46	19.3	8	31.79	34	35.8	22	14.77	29	61.9	19	20.38	32	27.2	21
28	63.45	42	20.1	13	32.13	31	38.0	24	15.06	26	63.8	18	20.70	29	29.3	21
Sept. 7	63.87	35	21.4	19	32.44	27	40.4	24	15.32	23	65.6	17	20.99	25	31.4	21
17	64.22	29	23.3	23	32.71	24	42.8	24	15.55	20	67.3	15	21.24	23	33.5	21
27	64.51	21	25.6	26	32.95	19	45.2	24	15.75	17	68.8	14	21.47	19	35.6	20
Okt. 7	64.72	13	28.2	29	33.14	16	47.6	23	15.92	14	70.2	13	21.66	15	37.6	19
17	64.85	5	31.1	30	33.30	11	49.9	22	16.06	11	71.5	11	21.81	12	39.5	17
27	64.90	3	34.1	30	33.41	8	52.1	20	16.17	7	72.6	9	21.93	8	41.2	16
Nov. 6	64.87	11	37.1	29	33.49	4	54.1	18	16.24	5	73.5	7	22.01	5	42.8	15
16	64.76	18	40.0	27	33.53	1	55.9	17	16.29	1	74.2	6	22.06	1	44.3	13
26	64.58	24	42.7	23	33.52	4	57.6	13	16.30	2	74.8	4	22.07	2	45.6	10
Dez. 6	64.34	29	45.0	20	33.48	8	58.9	11	16.28	4	75.2	2	22.05	6	46.6	7
16	64.05	33	47.0	14	33.40	11	60.0	7	16.24	7	75.4	0	21.99	9	47.3	5
26	63.72	37	48.4	9	33.29	14	60.7	4	16.17	10	75.4	1	21.90	12	47.8	2
36	63.35		49.3		33.15		61.1		16.07		75.3		21.78		48.0	
Mittl. Ort	59.79		52.3		29.49		28.3		12.53		48.4		18.13		17.4	
	72)				73)				74)				75)			

1912	55 Cassiopej. 6ᵐ.3.				Lac. μ Forn. 5ᵐ.2.				67 Ceti. 5ᵐ.8.				ξ² Ceti. 4ᵐ.2.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +	
	$2^h 7^m$		66° 6′		$2^h 9^m$		31° 7′		$2^h 12^m$		6° 49′		$2^h 23^m$		8° 3′	
Jan. 1	33.27	37	63.5	10	2.49	15	80.0	10	35.76	10	40.1	8	28.79	9	61.2	5
11	32.90	41	64.5	4	2.34	16	81.0	6	35.66	12	40.9	7	28.70	11	60.7	6
21	32.49	43	64.9	2	2.18	16	81.6	1	35.54	12	41.6	4	28.59	13	60.1	5
31	32.06	43	64.7	6	2.02	18	81.7	3	35.42	13	42.0	3	28.46	14	59.6	4
Febr. 10	31.63	42	64.1	11	1.84	16	81.4	6	35.29	13	42.3	0	28.32	13	59.2	4
20	31.21	38	63.0	16	1.68	16	80.8	11	35.16	13	42.3	1	28.19	12	58.8	4
März 1	30.83	33	61.4	20	1.52	13	79.7	14	35.03	10	42.2	4	28.07	11	58.4	2
11	30.50	25	59.4	23	1.39	10	78.3	18	34.93	8	41.8	7	27.96	8	58.2	1
21	30.25	16	57.1	24	1.29	7	76.5	21	34.85	4	41.1	8	27.88	5	58.1	1
31	30.09	6	54.7	25	1.22	2	74.4	24	34.81	1	40.3	11	27.83	2	58.2	2
April 10	30.03	5	52.2	25	1.20	2	72.0	26	34.80	3	39.2	14	27.81	3	58.4	4
20	30.08	17	49.7	26	1.22	7	69.4	31	34.83	9	37.8	17	27.84	8	58.8	8
30	[24] 30.25	26	47.1	22	[21] 1.29	12	66.3	30	[25] 34.92	12	36.1	17	[28] 27.92	13	59.6	9
Mai 10	30.51	36	44.9	18	1.41	17	63.3	30	35.04	18	34.4	20	28.05	17	60.5	11
20	30.87	45	43.1	14	1.58	22	60.3	30	35.22	21	32.4	21	28.22	21	61.6	13
30	31.32	53	41.7	11	1.80	25	57.3	29	35.43	24	30.3	21	28.43	24	62.9	15
Juni 9	31.85	58	40.6	6	2.05	29	54.4	28	35.67	27	28.2	22	28.67	28	64.4	17
19	32.43	62	40.0	1	2.34	32	51.6	25	35.94	30	26.0	22	28.95	30	66.1	17
29	33.05	65	39.9	3	2.66	33	49.1	23	36.24	31	23.8	21	29.25	31	67.8	19
Juli 9	33.70	66	40.2	9	2.99	34	46.8	21	36.55	32	21.7	20	29.56	32	69.7	18
19	34.36	66	41.1	12	3.33	35	44.7	16	36.87	31	19.7	18	29.88	32	71.5	17
29	35.02	64	42.3	17	3.68	34	43.1	11	37.18	31	17.9	16	30.20	31	73.2	17
Aug. 8	35.66	61	44.0	20	4.02	32	42.0	7	37.49	30	16.3	12	30.51	30	74.9	16
18	36.27	58	46.0	24	4.34	30	41.3	3	37.79	27	15.1	10	30.81	29	76.5	14
28	36.85	52	48.4	26	4.64	27	41.0	3	38.06	25	14.1	7	31.10	26	77.9	12
Sept. 7	37.37	46	51.0	29	4.91	24	41.3	7	38.31	22	13.4	3	31.36	23	79.1	10
17	37.83	41	53.9	31	5.15	20	42.0	11	38.53	20	13.1	1	31.59	21	80.1	7
27	38.24	34	57.0	32	5.35	17	43.1	15	38.73	16	13.0	3	31.80	18	80.8	6
Okt. 7	38.58	26	60.2	32	5.52	13	44.6	18	38.89	13	13.3	5	31.98	15	81.4	3
17	38.84	19	63.4	33	5.65	8	46.4	21	39.02	11	13.8	7	32.13	12	81.7	1
27	39.03	11	66.7	32	5.73	4	48.5	21	39.13	7	14.5	9	32.25	9	81.8	0
Nov. 6	39.14	3	69.9	30	5.77	2	50.6	22	39.20	4	15.4	11	32.34	6	81.8	1
16	39.17	5	72.9	28	5.79	2	52.8	21	39.24	1	16.5	11	32.40	3	81.7	3
26	39.12	14	75.7	25	5.77	5	54.9	19	39.25	2	17.6	11	32.43	0	81.4	4
Dez. 6	38.98	21	78.2	22	5.72	9	56.8	18	39.23	4	18.7	10	32.43	3	81.0	5
16	38.77	28	80.4	17	5.63	11	58.6	15	39.19	7	19.7	10	32.40	5	80.5	5
26	38.49	33	82.1	13	5.52	13	60.1	12	39.12	8	20.7	9	32.35	8	80.0	5
36	38.16		83.4		5.39		61.3		39.04		21.6		32.27		79.5	
Mittl. Ort	33.62		45.3		1.99		70.8		35.58		38.3		28.69		57.9	
	76)				78)				80)				85)			

1912	36 H. Cassiop. $5^m.4$.				μ Hydri. $5^m.5$.				ν Arietis. $5^m.6$.				δ Ceti. $3^m.9$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	$2^h\ 29^m$		72° 25′		$2^h\ 33^m$		79° 29′		$2^h\ 33^m$		21° 34′		$2^h\ 34^m$		0° 2′	
Jan. 1	38.44	50	82.3	14	36.65	115	51.6	8	49.02	9	60.8	2	58.45	9	61.2	8
11	37.94	56	83.7	8	35.50	121	52.4	2	48.93	12	60.6	3	58.36	11	62.0	6
21	37.38	60	84.5	3	34.29	123	52.6	4	48.81	13	60.3	4	58.25	13	62.6	5
31	36.78	62	84.8	3	33.06	123	52.2	10	48.68	15	59.9	5	58.12	13	63.1	4
Febr. 10	36.16	61	84.5	9	31.83	118	51.2	15	48.53	15	59.4	6	57.99	14	63.5	2
20	35.55	56	83.6	13	30.65	111	49.7	21	48.38	14	58.8	7	57.85	13	63.7	1
März 1	34.99	50	82.3	18	29.54	101	47.6	25	48.24	12	58.1	7	57.72	11	63.8	1
11	34.49	41	80.5	22	28.53	88	45.1	29	48.12	10	57.4	7	57.61	10	63.7	3
21	34.08	29	78.3	25	27.65	74	42.2	33	48.02	7	56.7	6	57.51	6	63.4	4
31	33.79	16	75.8	26	26.91	57	38.9	35	47.95	2	56.1	5	57.45	2	63.0	7
April 10	33.63	3	73.2	26	26.34	39	35.4	37	47.93	2	55.6	4	57.43	1	62.3	9
20	33.60	11	70.6	26	25.95	20	31.7	38	47.95	7	55.2	1	57.44	6	61.4	11
30	33.71	29	68.0	28	25.75	0	27.9	42	48.02	13	55.1	0	57.50	12	60.3	15
Mai 10	34.00	40	65.2	22	25.75	21	23.7	37	48.15	17	55.1	3	57.62	15	58.8	16
20	34.40	52	63.0	18	25.96	40	20.0	35	48.32	22	55.4	6	57.77	20	57.2	17
30	34.92	62	61.2	15	26.36	59	16.5	33	48.54	26	56.0	8	57.97	23	55.5	18
Juni 9	35.54	72	59.7	11	26.95	75	13.2	31	48.80	28	56.8	10	58.20	26	53.7	19
19	36.26	77	58.6	6	27.70	89	10.1	26	49.08	31	57.8	12	58.46	28	51.8	20
29	37.03	83	58.0	1	28.59	104	7.5	21	49.39	33	59.0	14	58.74	31	49.8	20
Juli 9	37.86	85	57.9	4	29.63	110	5.4	17	49.72	34	60.4	16	59.05	31	47.8	19
19	38.71	87	58.3	8	30.73	117	3.7	11	50.06	34	62.0	16	59.36	31	45.9	18
29	39.58	86	59.1	12	31.90	120	2.6	5	50.40	33	63.6	17	59.67	32	44.1	16
Aug. 8	40.44	82	60.3	16	33.10	118	2.1	1	50.73	32	65.3	17	59.99	30	42.5	15
18	41.26	78	61.9	22	34.28	114	2.2	8	51.05	31	67.0	16	60.29	28	41.0	12
28	42.04	74	64.1	25	35.42	106	3.0	13	51.36	28	68.6	16	60.57	26	39.8	9
Sept. 7	42.78	67	66.6	27	36.48	92	4.3	19	51.64	25	70.2	15	60.83	24	38.9	6
17	43.45	59	69.3	30	37.40	78	6.2	23	51.89	23	71.7	13	61.07	21	38.3	4
27	44.04	50	72.3	31	38.18	59	8.5	27	52.12	20	73.0	12	61.28	19	37.9	0
Okt. 7	44.54	41	75.4	34	38.77	38	11.2	30	52.32	17	74.2	11	61.47	15	37.9	1
17	44.95	31	78.8	34	39.15	18	14.2	31	52.49	14	75.3	9	61.62	13	38.0	4
27	45.26	20	82.2	33	39.33	6	17.3	32	52.63	11	76.2	8	61.75	10	38.4	6
Nov. 6	45.46	8	85.5	33	39.27	27	20.5	32	52.74	8	77.0	6	61.85	7	39.0	7
16	45.54	3	88.8	32	39.00	49	23.7	29	52.82	4	77.6	5	61.92	3	39.7	7
26	45.51	14	92.0	29	38.51	68	26.6	26	52.86	2	78.1	4	61.95	1	40.4	9
Dez. 6	45.37	25	94.9	25	37.83	86	29.2	22	52.88	2	78.5	2	61.96	2	41.3	8
16	45.12	36	97.4	21	36.97	100	31.4	17	52.86	5	78.7	0	61.94	5	42.1	8
26	44.76	46	99.5	17	35.97	111	33.1	11	52.81	8	78.7	1	61.89	8	42.9	8
36	44.30		101.2		34.86		34.2		52.73		78.6		61.81		43.7	
Mittl. Ort	38.40		63.2		30.67		36.3		48.96		53.0		58.22		62.3	
	87)				90)				89)				91)			

1912	ϑ Persei. $4^m.1$. AR.		Dekl. +		π Ceti. $4^m.0$. AR.		Dekl. —		μ Ceti. $4^m.2$. AR.		Dekl. +		41 Arietis. $3^m.6$. AR.		Dekl. +	
	$2^h\ 38^m$		48° 51′		$2^h\ 39^m$		14° 13′		$2^h\ 40^m$		9° 44′		$2^h\ 44^m$		26° 53′	
Jan. 1	10.92	16	39.7	7	56.44	11	54.3	10	11.14	9	39.4	5	48.11	10	63.5	1
11	10.76	20	40.4	4	56.33	12	55.3	8	11.05	10	38.9	5	48.01	12	63.6	— 1
21	10.56	23	40.8	— 1	56.21	13	56.1	5	10.95	13	38.4	4	47.89	14	63.5	3
31	10.33	23	40.7	4	56.08	15	56.6	3	10.82	14	38.0	5	47.75	16	63.2	5
Febr. 10	10.10	24	40.3	8	55.93	15	56.9	— 1	10.68	14	37.5	4	47.59	16	62.7	7
20	9.86	22	39.5	11	55.78	14	56.8	3	10.54	13	37.1	4	47.43	15	62.0	7
März 1	9.64	20	38.4	14	55.64	13	56.5	6	10.41	12	36.7	3	47.28	14	61.3	8
11	9.44	17	37.0	17	55.51	10	55.9	9	10.29	9	36.4	1	47.14	11	60.5	9
21	9.27	11	35.3	17	55.41	8	55.0	12	10.20	7	36.3	1	47.03	8	59.6	8
31	9.16	5	33.6	19	55.33	4	53.8	14	10.13	3	36.2	— 2	46.95	3	58.8	8
April 10	9.11	— 1	31.7	18	55.29	0	52.4	17	10.10	— 2	36.4	3	46.92	— 1	58.0	7
20	9.12	8	29.9	17	55.29	5	50.7	19	10.12	6	36.7	6	46.93	6	57.3	4
30	[2] 9.20	16	28.2	16	[2] 55.34	10	48.8	23	[2] 10.18	11	37.3	8	[1] 46.99	12	56.9	3
Mai 10	9.36	22	26.6	12	55.44	14	46.5	23	10.29	16	38.1	10	47.11	17	56.6	1
20	9.58	28	25.4	9	55.58	18	44.2	24	10.45	20	39.1	12	47.28	22	56.5	— 2
30	9.86	32	24.5	6	55.76	23	41.8	25	10.65	23	40.3	13	47.50	25	56.7	5
Juni 9	10.18	38	23.9	2	55.99	25	39.3	24	10.88	27	41.6	15	47.75	29	57.2	7
19	10.56	40	23.7	— 1	56.24	28	36.9	23	11.15	29	43.1	17	48.04	32	57.9	9
29	10.96	43	23.8	5	56.52	30	34.6	23	11.44	31	44.8	17	48.36	34	58.8	12
Juli 9	11.39	45	24.3	8	56.82	32	32.3	21	11.75	32	46.5	17	48.70	34	60.0	13
19	11.84	45	25.1	12	57.14	31	30.2	18	12.07	32	48.2	17	49.04	36	61.3	15
29	12.29	44	26.3	14	57.45	32	28.4	15	12.39	32	49.9	17	49.40	34	62.8	17
Aug. 8	12.73	43	27.7	17	57.77	30	26.9	13	12.71	31	51.6	15	49.74	34	64.5	16
18	13.16	40	29.4	20	58.07	29	25.6	8	13.02	29	53.1	14	50.08	32	66.1	16
28	13.56	38	31.4	21	58.36	27	24.8	4	13.31	27	54.5	12	50.40	30	67.7	16
Sept. 7	13.94	35	33.5	23	58.63	24	24.4	1	13.58	25	55.7	10	50.70	27	69.3	16
17	14.29	32	35.8	24	58.87	22	24.3	— 3	13.83	22	56.7	8	50.97	25	70.9	15
27	14.61	27	38.2	24	59.09	19	24.6	6	14.05	20	57.5	6	51.22	22	72.4	15
Okt. 7	14.88	23	40.6	24	59.28	15	25.2	10	14.25	16	58.1	4	51.44	19	73.9	13
17	15.11	19	43.0	24	59.43	13	26.2	12	14.41	14	58.5	2	51.63	16	75.2	12
27	15.30	15	45.4	24	59.56	9	27.4	14	14.55	11	58.7	0	51.79	12	76.4	11
Nov. 6	15.45	10	47.8	22	59.65	6	28.8	15	14.66	8	58.7	1	51.91	9	77.5	9
16	15.55	5	50.0	20	59.71	3	30.3	15	14.74	5	58.6	2	52.00	6	78.4	8
26	15.60	0	52.0	19	59.74	0	31.8	16	14.79	1	58.4	4	52.06	3	79.2	6
Dez. 6	15.60	5	53.9	16	59.74	3	33.4	14	14.80	— 1	58.0	4	52.09	— 1	79.8	5
16	15.55	10	55.5	12	59.71	6	34.8	13	14.79	4	57.6	4	52.08	5	80.3	3
26	15.45	14	56.7	9	59.65	9	36.1	11	14.75	8	57.2	5	52.03	8	80.6	2
36	15.31		57.6		59.56		37.2		14.67		56.7		51.95		80.8	
Mittl. Ort	10.91		24.7		56.03		51.3		10.96		35.1		48.01		54.1	
	93)				97)				98)				100)			

1912	β Fornacis. $4^m.4$ AR.		Dekl. −		τ^2 Eridani. $4^m.8$ AR.		Dekl. −	
	$2^h\ 45^m$		$32^\circ\ 45'$		$2^h\ 47^m$		$21^\circ\ 21'$	
Jan. 1	$25^s.18$	14	$98''.0$	13	$3^s.34$	12	$63''.8$	12
11	25.04	17	99.3	8	3.22	13	65.0	8
21	24.87	18	100.1	5	3.09	15	65.8	5
31	24.69	19	100.6	0	2.94	16	66.3	2
Febr. 10	24.50	19	100.6	4	2.78	16	66.5	1
20	24.31	18	100.2	9	2.62	15	66.4	5
März 1	24.13	17	99.3	12	2.47	15	65.9	8
11	23.96	14	98.1	16	2.32	12	65.1	12
21	23.82	11	96.5	20	2.20	9	63.9	15
31	23.71	7	94.5	23	2.11	5	62.4	17
April 10	23.64	3	92.2	26	2.06	1	60.7	20
20	23.61	2	89.6	28	2.05	3	58.7	23
30	23.63	9	86.8	32	2.08	9	56.4	27
Mai 10	23.72	12	83.6	31	2.17	13	53.7	26
20	23.84	18	80.5	31	2.30	17	51.1	27
30	24.02	22	77.4	30	2.47	22	48.4	27
Juni 9	24.24	26	74.4	30	2.69	25	45.7	27
19	24.50	29	71.4	28	2.94	28	43.0	25
29	24.79	32	68.6	25	3.22	30	40.5	24
Juli 9	25.11	34	66.1	22	3.52	32	38.1	22
19	25.45	34	63.9	18	3.84	32	35.9	18
29	25.79	34	62.1	14	4.16	32	34.1	15
Aug. 8	26.13	33	60.7	9	4.48	31	32.6	11
18	26.46	32	59.8	4	4.79	30	31.5	7
28	26.78	30	59.4	1	5.09	28	30.8	2
Sept. 7	27.08	27	59.5	6	5.37	25	30.6	1
17	27.35	24	60.1	11	5.62	23	30.7	6
27	27.59	20	61.2	15	5.85	19	31.3	10
Okt. 7	27.79	17	62.7	18	6.04	17	32.3	13
17	27.96	12	64.5	21	6.21	13	33.6	16
27	28.08	9	66.6	23	6.34	9	35.2	18
Nov. 6	28.17	5	68.9	23	6.43	6	37.0	18
16	28.22	2	71.2	24	6.49	3	38.8	19
26	28.24	3	73.6	23	6.52	0	40.7	19
Dez. 6	28.21	7	75.9	21	6.52	4	42.6	18
16	28.14	9	78.0	17	6.48	7	44.4	15
26	28.05	13	79.7	15	6.41	9	45.9	13
36	27.92		81.2		6.32		47.2	
Mittl. Ort	24.43		90.3		2.80		59.1	
	101)				102)			

1912	τ Persei. $4^m.0$ AR.		Dekl. +		η Eridani. $3^m.7$ AR.		Dekl. −	
	$2^h\ 47^m$		$52^\circ\ 24'$		$2^h\ 52^m$		$9^\circ\ 14'$	
Jan. 1	$60^s.71$	18	$26''.6$	10	$8^s.06$	9	$53''.5$	10
11	60.53	22	27.6	5	7.97	12	54.5	8
21	60.31	24	28.1	1	7.85	13	55.3	6
31	60.07	27	28.2	3	7.72	14	55.9	3
Febr. 10	59.80	26	27.9	7	7.58	15	56.2	1
20	59.54	25	27.2	11	7.43	14	56.3	1
März 1	59.29	23	26.1	13	7.29	13	56.2	4
11	59.06	19	24.8	17	7.16	11	55.8	6
21	58.87	14	23.1	18	7.05	9	55.2	9
31	58.73	8	21.3	20	6.96	4	54.3	12
April 10	58.65	1	19.3	19	6.92	1	53.1	13
20	58.64	7	17.4	18	6.91	4	51.8	16
30	58.71	16	15.6	19	6.95	9	50.2	20
Mai 10	58.87	21	13.7	15	7.04	13	48.2	20
20	59.08	27	12.2	11	7.17	18	46.2	21
30	59.35	34	11.1	8	7.35	21	44.1	23
Juni 9	59.69	39	10.3	5	7.56	25	41.8	22
19	60.08	42	9.8	1	7.81	27	39.6	23
29	60.50	46	9.7	3	8.08	30	37.3	21
Juli 9	60.96	47	10.0	6	8.38	30	35.2	20
19	61.43	47	10.6	10	8.68	32	33.2	19
29	61.90	47	11.6	13	9.00	31	31.3	16
Aug. 8	62.37	46	12.9	16	9.31	30	29.7	12
18	62.83	44	14.5	19	9.61	29	28.5	10
28	63.27	42	16.4	20	9.90	28	27.5	6
Sept. 7	63.69	38	18.4	23	10.18	25	26.9	3
17	64.07	34	20.7	24	10.43	22	26.6	1
27	64.41	31	23.1	24	10.65	20	26.7	4
Okt. 7	64.72	27	25.5	26	10.85	17	27.1	7
17	64.99	22	28.1	25	11.02	14	27.8	9
27	65.21	16	30.6	25	11.16	11	28.7	11
Nov. 6	65.37	12	33.1	24	11.27	8	29.8	13
16	65.49	7	35.5	23	11.35	4	31.1	13
26	65.56	1	37.8	20	11.39	2	32.4	14
Dez. 6	65.57	5	39.8	18	11.41	2	33.8	13
16	65.52	10	41.6	15	11.39	5	35.1	12
26	65.42	16	43.1	11	11.34	7	36.3	11
36	65.26		44.2		11.27		37.4	
Mittl. Ort	60.60		10.9		7.65		52.5	
	103)				104)			

1912	47 H. Cephei. $5^m.8$ AR.	Diff.	47 H. Cephei. Dekl. +	Diff.	ϑ Eridani. $2^m.9$ AR.	Diff.	ϑ Eridani. Dekl. −	Diff.	α Ceti. $2^m.5$ AR.	Diff.	α Ceti. Dekl. +	Diff.	γ Persei. $3^m.0$ AR.	Diff.	γ Persei. Dekl. +	Diff.
	$2^h\ 54^m$		79° 4′		$2^h\ 54^m$		40° 38′		$2^h\ 57^m$		3° 44′		$2^h\ 58^m$		53° 9′	
Jan. 1	21.32	78	39.8	19	56.39	17	93.5	14	40.96	8	45.0	6	25.07	17	60.9	11
11	20.54	91	41.7	13	56.22	19	94.9	10	40.88	10	44.4	6	24.90	22	62.0	6
21	19.63	98	43.0	8	56.03	22	95.9	4	40.78	13	43.8	5	24.68	25	62.6	2
31	18.65	103	43.8	2	55.81	22	96.3	0	40.65	13	43.3	4	24.43	26	62.8	1
Febr. 10	17.62	103	44.0	5	55.59	23	96.3	5	40.52	14	42.9	4	24.17	28	62.7	6
20	16.59	99	43.5	11	55.36	22	95.8	9	40.38	14	42.5	2	23.89	26	62.1	10
März 1	15.60	90	42.4	15	55.14	20	94.9	14	40.24	13	42.3	0	23.63	24	61.1	13
11	14.70	76	40.9	21	54.94	18	93.5	19	40.11	11	42.3	1	23.39	21	59.8	16
21	13.94	61	38.8	23	54.76	14	91.6	22	40.00	8	42.4	2	23.18	15	58.2	17
31	13.33	40	36.5	26	54.62	11	89.4	25	39.92	5	42.6	5	23.03	10	56.5	19
April 10	12.93	20	33.9	28	54.51	5	86.9	28	39.87	0	43.1	6	22.93	2	54.6	19
20	12.73	2	31.1	28	54.46	0	84.1	31	39.87	3	43.7	9	22.91	5	52.7	19
30	12.75	28	28.3	30	54.46	6	81.0	35	39.90	10	44.6	11	22.96	14	50.8	20
Mai 10	13.03	47	25.3	26	54.52	11	77.5	33	40.00	13	45.7	13	23.10	20	48.8	15
20	13.50	68	22.7	22	54.63	17	74.2	33	40.13	18	47.0	15	23.30	27	47.3	13
30	14.18	85	20.5	20	54.80	22	70.9	33	40.31	22	48.5	16	23.57	33	46.0	9
Juni 9	15.03	100	18.5	15	55.02	26	67.6	31	40.53	25	50.1	17	23.90	38	45.1	6
19	16.03	113	17.0	12	55.28	29	64.5	29	40.78	27	51.8	18	24.28	42	44.5	2
29	17.16	122	15.8	6	55.57	33	61.6	27	41.05	30	53.6	18	24.70	46	44.3	1
Juli 9	18.38	129	15.2	2	55.90	35	58.9	22	41.35	31	55.4	18	25.16	47	44.4	4
19	19.67	132	15.0	4	56.25	36	56.7	19	41.66	31	57.2	17	25.63	48	44.8	9
29	20.99	134	15.4	8	56.61	37	54.8	13	41.97	32	58.9	16	26.11	49	45.7	11
Aug. 8	22.33	131	16.2	12	56.98	36	53.5	9	42.29	30	60.5	14	26.60	47	46.8	15
18	23.64	128	17.4	17	57.34	34	52.6	2	42.59	30	61.9	13	27.07	45	48.3	17
28	24.92	121	19.1	21	57.68	33	52.4	2	42.89	27	63.2	10	27.52	43	50.0	20
Sept. 7	26.13	112	21.2	25	58.01	29	52.6	8	43.16	26	64.2	7	27.95	40	52.0	21
17	27.25	101	23.7	28	58.30	26	53.4	13	43.42	23	64.9	5	28.35	37	54.1	23
27	28.26	89	26.5	31	58.56	23	54.7	18	43.65	20	65.4	2	28.72	33	56.4	25
Okt. 7	29.15	74	29.6	33	58.79	18	56.5	21	43.85	18	65.6	1	29.05	28	58.9	25
17	29.89	59	32.9	34	58.97	14	58.6	24	44.03	16	65.7	2	29.33	24	61.4	25
27	30.48	41	36.3	35	59.11	10	61.0	26	44.19	12	65.5	4	29.57	19	63.9	25
Nov. 6	30.89	23	39.8	35	59.21	5	63.6	27	44.31	9	65.1	6	29.76	14	66.4	24
16	31.12	3	43.3	34	59.26	0	66.3	27	44.40	6	64.5	6	29.90	8	68.8	23
26	31.15	15	46.7	32	59.26	4	69.0	25	44.46	3	63.9	7	29.98	3	71.1	21
Dez. 6	31.00	35	49.9	29	59.22	8	71.5	24	44.49	0	63.2	7	30.01	4	73.2	19
16	30.65	53	52.8	26	59.14	12	73.9	20	44.49	4	62.5	7	29.97	9	75.1	16
26	30.12	69	55.4	21	59.02	15	75.9	16	44.45	6	61.8	7	29.88	14	76.7	12
36	29.43		57.5		58.87		77.5		44.39		61.1		29.74		77.9	
Mittl. Ort	20.31		20.4		55.39		84.6		40.65		42.1		24.86		45.1	
	105)				106)				107)				108)			

1912	ρ Persei. ($3^m.8$). AR.		Dekl. +		μ Horologii. $5^m.1$. AR.		Dekl. —		β Persei. ($2^m.2$). AR.		Dekl. +		δ Arietis. $4^m.3$. AR.		Dekl. +	
	$2^h\ 59^m$		38° 29′		$3^h\ 1^m$		60° 4′		$3^h\ 2^m$		40° 37′		$3^h\ 6^m$		19° 23′	
Jan. 1	32.10	11	72.4	6	34.25	33	55.5	15	26.45	11	15.4	6	35.90	8	47.8	1
11	31.99	14	73.0	2	33.92	36	57.0	9	26.34	15	16.0	3	35.82	10	47.7	2
21	31.85	17	73.2	0	33.56	39	57.9	4	26.19	18	16.3	1	35.72	13	47.5	3
31	31.68	19	73.2	3	33.17	40	58.3	3	26.01	19	16.4	3	35.59	14	47.2	4
Febr. 10	31.49	19	72.9	6	32.77	40	58.0	8	25.82	20	16.1	6	35.45	15	46.8	5
20	31.30	19	72.3	9	32.37	39	57.2	13	25.62	20	15.5	8	35.30	15	46.3	5
März 1	31.11	17	71.4	10	31.98	36	55.9	18	25.42	18	14.7	10	35.15	14	45.8	5
11	30.94	15	70.4	12	31.62	33	54.1	23	25.24	16	13.7	13	35.01	12	45.3	5
21	30.79	11	69.2	13	31.29	27	51.8	27	25.08	11	12.4	13	34.89	10	44.8	5
31	30.68	6	67.9	13	31.02	22	49.1	31	24.97	7	11.1	14	34.79	5	44.3	3
April 10	30.62	1	66.6	12	30.80	14	46.0	33	24.90	1	9.7	13	34.74	1	44.0	3
20	30.61	5	65.4	12	30.66	8	42.7	35	24.89	4	8.4	13	34.73	4	43.7	0
30	30.66	12	64.2	11	30.58	1	39.2	40	24.93	12	7.1	12	34.77	10	43.7	1
Mai 10	30.78	17	63.1	7	30.59	9	35.2	37	25.05	17	5.9	9	34.87	13	43.8	3
20	30.95	23	62.4	5	30.68	17	31.5	36	25.22	22	5.0	6	35.00	19	44.1	6
30	31.18	27	61.9	2	30.85	24	27.9	36	25.44	28	4.4	4	35.19	22	44.7	7
Juni 9	31.45	31	61.7	0	31.09	31	24.3	33	25.72	31	4.0	0	35.41	26	45.4	10
19	31.76	34	61.7	4	31.40	37	21.0	30	26.03	35	4.0	2	35.67	30	46.4	11
29	32.10	37	62.1	6	31.77	42	18.0	27	26.38	38	4.2	5	35.97	31	47.5	13
Juli 9	32.47	38	62.7	9	32.19	45	15.3	22	26.76	39	4.7	9	36.28	32	48.8	14
19	32.85	39	63.6	12	32.64	48	13.1	17	27.15	39	5.6	10	36.60	34	50.2	14
29	33.24	39	64.8	13	33.12	50	11.4	12	27.54	40	6.6	13	36.94	33	51.6	15
Aug. 8	33.63	38	66.1	15	33.62	49	10.2	6	27.94	39	7.9	15	37.27	32	53.1	15
18	34.01	36	67.6	17	34.11	48	9.6	1	28.33	38	9.4	16	37.59	32	54.6	14
28	34.37	34	69.3	17	34.59	46	9.7	6	28.71	35	11.0	18	37.91	29	56.0	14
Sept. 7	34.71	32	71.0	19	35.05	41	10.3	13	29.06	33	12.8	18	38.20	28	57.4	12
17	35.03	29	72.9	18	35.46	37	11.6	18	29.39	31	14.6	19	38.48	25	58.6	11
27	35.32	27	74.7	19	35.83	30	13.4	23	29.70	27	16.5	20	38.73	23	59.7	10
Okt. 7	35.59	23	76.6	18	36.13	25	15.7	26	29.97	24	18.5	19	38.96	20	60.7	8
17	35.82	19	78.4	18	36.38	16	18.3	30	30.21	20	20.4	19	39.16	18	61.5	7
27	36.01	16	80.2	17	36.54	10	21.3	31	30.41	16	22.3	18	39.34	14	62.2	6
Nov. 6	36.17	12	81.9	16	36.64	2	24.4	32	30.57	13	24.1	17	39.48	11	62.8	4
16	36.29	8	83.5	15	36.66	5	27.6	31	30.70	8	25.8	16	39.59	8	63.2	3
26	36.37	4	85.0	13	36.61	13	30.7	29	30.78	4	27.4	15	39.67	5	63.5	2
Dez. 6	36.41	1	86.3	11	36.48	19	33.6	26	30.82	0	28.9	12	39.72	1	63.7	1
16	36.40	4	87.4	9	36.29	26	36.2	22	30.82	5	30.1	10	39.73	3	63.8	0
26	36.36	9	88.3	7	36.03	30	38.4	18	30.77	9	31.1	7	39.70	6	63.8	1
36	36.27		89.0		35.73		40.2		30.68		31.8		39.64		63.7	
Mittl. Ort	31.93		59.9		32.22		43.9		26.26		2.3		35.64		40.2	
	109)				110)				111)				114)			

1912	12 Eridani. $3^m.6$. AR.		Dekl. −		48 H. Cephei. $5^m.9$. AR.		Dekl. +		α Persei. $1^m.9$. AR.		Dekl. +		ο Tauri. $3^m.6$. AR.		Dekl. +	
	$3^h\ 8^m$		29° 19′		$3^h\ 9^m$		77° 24′		$3^h\ 18^m$		49° 32′		$3^h\ 20^m$		8° 43′	
Jan. 1	20.70	12	66.3	14	7.96	62	65.2	20	2.34	14	70.3	11	4.92	7	16.0	5
11	20.58	15	67.7	11	7.34	74	67.2	15	2.20	17	71.4	7	4.85	9	15.5	5
21	20.43	16	68.8	6	6.60	83	68.7	9	2.03	21	72.1	4	4.76	12	15.0	4
31	20.27	18	69.4	3	5.77	88	69.6	4	1.82	24	72.5	0	4.64	14	14.6	4
Febr. 10	20.09	19	69.7	2	4.89	89	70.0	3	1.58	25	72.5	4	4.50	14	14.2	4
20	19.90	19	69.5	6	4.00	86	69.7	9	1.33	25	72.1	8	4.36	15	13.8	3
März 1	19.71	17	68.9	10	3.14	80	68.8	14	1.08	23	71.3	10	4.21	14	13.5	2
11	19.54	15	67.9	13	2.34	70	67.4	18	0.85	20	70.3	14	4.07	13	13.3	1
21	19.39	13	66.6	17	1.64	56	65.6	23	0.65	16	68.9	15	3.94	9	13.2	1
31	19.26	9	64.9	20	1.08	40	63.3	24	0.49	11	67.4	17	3.85	7	13.3	1
April 10	19.17	4	62.9	24	0.68	21	60.9	26	0.38	5	65.7	17	3.78	2	13.4	4
20	19.13	0	60.5	26	0.47	3	58.3	28	0.33	3	64.0	17	3.76	2	13.8	5
30	19.13	5	57.9	27	0.44	16	55.5	28	0.36	9	62.3	16	3.78	7	14.3	7
Mai 10	19.18	11	55.2	32	0.60	40	52.7	27	0.45	18	60.7	16	3.85	12	15.0	10
20	[10] 19.29	15	52.0	30	[10] 1.00	54	50.0	24	[12] 0.63	23	59.1	12	[13] 3.97	17	16.0	12
30	19.44	20	49.0	30	1.54	71	47.6	21	0.86	29	57.9	9	4.14	20	17.2	12
Juni 9	19.64	24	46.0	29	2.25	85	45.5	16	1.15	34	57.0	6	4.34	24	18.4	14
19	19.88	27	43.1	28	3.10	96	43.9	13	1.49	38	56.4	3	4.58	26	19.8	15
29	20.15	30	40.3	26	4.06	106	42.6	8	1.87	41	56.1	0	4.84	29	21.3	16
Juli 9	20.45	31	37.7	23	5.12	112	41.8	3	2.28	44	56.1	4	5.13	31	22.9	16
19	20.76	33	35.4	20	6.24	117	41.5	1	2.72	45	56.5	7	5.44	31	24.5	16
29	21.09	33	33.4	16	7.41	119	41.6	6	3.17	45	57.2	9	5.75	32	26.1	15
Aug. 8	21.42	33	31.8	11	8.60	118	42.2	11	3.62	46	58.1	13	6.07	31	27.6	14
18	21.75	32	30.7	6	9.78	114	43.3	14	4.08	43	59.4	15	6.38	30	29.0	12
28	22.07	30	30.1	1	10.92	110	44.7	19	4.51	42	60.9	17	6.68	29	30.2	11
Sept. 7	22.37	28	30.0	3	12.02	103	46.6	23	4.93	40	62.6	18	6.97	27	31.3	9
17	22.65	25	30.3	8	13.05	95	48.9	26	5.33	36	64.4	20	7.24	25	32.2	6
27	22.90	22	31.1	13	14.00	84	51.5	29	5.69	33	66.4	22	7.49	23	32.8	4
Okt. 7	23.12	19	32.4	16	14.84	73	54.4	31	6.02	30	68.6	22	7.72	20	33.2	2
17	23.31	15	34.0	19	15.57	59	57.5	33	6.32	25	70.8	22	7.92	18	33.4	0
27	23.46	12	35.9	22	16.16	44	60.8	34	6.57	21	73.0	22	8.10	15	33.4	1
Nov. 6	23.58	7	38.1	23	16.60	28	64.2	34	6.78	16	75.2	22	8.25	12	33.3	3
16	23.65	4	40.4	23	16.88	12	67.6	33	6.94	11	77.4	21	8.37	8	33.0	3
26	23.69	1	42.7	23	17.00	6	70.9	32	7.05	6	79.5	19	8.45	6	32.7	5
Dez. 6	23.70	4	45.0	21	16.94	22	74.1	30	7.11	1	81.4	18	8.51	2	32.2	5
16	23.66	7	47.1	19	16.72	39	77.1	26	7.12	5	83.2	15	8.53	2	31.7	5
26	23.59	10	49.0	15	16.33	54	79.7	23	7.07	11	84.7	12	8.51	5	31.2	5
36	23.49		50.5		15.79		82.0		6.96		85.9		8.46		30.7	
Mittl. Ort	19.91		60.8		6.73		46.2		1.98		55.5		4.54		11.1	
	117)				115)				120)				121)			

1912	2 H. Camelop. 4^m.4. AR.		Dekl. +		f Tauri. 4^m.1. AR.		Dekl. +		ε Eridani. 3^m.5. AR.		Dekl. −		δ Persei. 3^m.0. AR.		Dekl. +	
	3^h 21^m		59° 38′		3^h 25^m		12° 38′		3^h 28^m		9° 44′		3^h 36^m		47° 30′	
Jan. 1	56.47	19	21.1	16	61.13	6	14.5	3	47.60	7	80.1	11	39.68	10	39.3	12
11	56.28	25	22.7	11	61.07	10	14.2	4	47.53	10	81.2	9	39.58	16	40.5	8
21	56.03	30	23.8	6	60.97	12	13.8	4	47.43	13	82.1	7	39.42	19	41.3	5
31	55.73	32	24.4	2	60.85	13	13.4	4	47.30	15	82.8	5	39.23	22	41.8	1
Febr. 10	55.41	34	24.6	— 3	60.72	15	13.0	4	47.15	15	83.3	2	39.01	23	41.9	— 3
20	55.07	34	24.3	7	60.57	15	12.6	3	47.00	16	83.5	0	38.78	24	41.6	5
März 1	54.73	32	23.6	12	60.42	15	12.3	3	46.84	16	83.5	3	38.54	24	41.1	9
11	54.41	28	22.4	15	60.27	13	12.0	2	46.68	13	83.2	5	38.30	20	40.2	11
21	54.13	22	20.9	18	60.14	10	11.8	1	46.55	12	82.7	8	38.10	17	39.1	14
31	53.91	16	19.1	20	60.04	7	11.7	0	46.43	8	81.9	11	37.93	12	37.7	15
April 10	53.75	8	17.1	21	59.97	3	11.7	1	46.35	4	80.8	13	37.81	6	36.2	16
20	53.67	— 1	15.0	21	59.94	— 2	11.8	3	46.31	0	79.5	16	37.75	1	34.6	16
30	53.68	9	12.9	21	59.96	6	12.1	5	46.31	4	77.9	17	37.74	— 7	33.0	15
Mai 10	53.77	20	10.8	21	60.02	12	12.6	7	46.35	10	76.2	21	37.81	15	31.5	15
20	[13]53.97	27	8.7	17	[14]60.14	17	13.3	9	[15]46.45	14	74.1	21	[17]37.96	20	30.0	12
30	54.24	34	7.0	15	60.31	20	14.2	10	46.59	18	72.0	22	38.16	26	28.8	9
Juni 9	54.58	41	5.5	11	60.51	24	15.2	12	46.77	22	69.8	22	38.42	31	27.9	7
19	54.99	46	4.4	7	60.75	26	16.4	13	46.99	25	67.6	22	38.73	35	27.2	3
29	55.45	50	3.7	4	61.01	30	17.7	15	47.24	27	65.4	22	39.08	40	26.9	1
Juli 9	55.95	54	3.3	— 1	61.31	30	19.2	14	47.51	29	63.2	20	39.48	41	26.8	— 2
19	56.49	55	3.4	3	61.61	32	20.6	15	47.80	30	61.2	19	39.89	44	27.0	6
29	57.04	56	3.7	7	61.93	32	22.1	14	48.10	31	59.3	16	40.33	43	27.6	8
Aug. 8	57.60	56	4.4	12	62.25	32	23.5	14	48.41	30	57.7	14	40.76	44	28.4	10
18	58.16	54	5.6	14	62.57	31	24.9	13	48.71	30	56.3	10	41.20	43	29.4	12
28	58.70	53	7.0	17	62.88	29	26.2	11	49.01	29	55.3	6	41.63	42	30.6	15
Sept. 7	59.23	49	8.7	19	63.17	28	27.3	9	49.30	26	54.7	3	42.05	39	32.1	16
17	59.72	46	10.6	23	63.45	26	28.2	8	49.56	25	54.4	0	42.44	37	33.7	18
27	60.18	42	12.9	24	63.71	24	29.0	6	49.81	23	54.4	5	42.81	35	35.5	19
Okt. 7	60.60	37	15.3	25	63.95	21	29.6	4	50.04	20	54.9	7	43.16	31	37.4	19
17	60.97	32	17.8	26	64.16	18	30.0	2	50.24	17	55.6	10	43.47	27	39.3	20
27	61.29	25	20.4	26	64.34	16	30.2	1	50.41	14	56.6	13	43.74	23	41.3	21
Nov. 6	61.54	20	23.0	27	64.50	13	30.3	— 1	50.55	11	57.9	13	43.97	18	43.4	20
16	61.74	13	25.7	26	64.63	9	30.2	1	50.66	8	59.2	15	44.15	14	45.4	19
26	61.87	6	28.3	25	64.72	6	30.1	2	50.74	4	60.7	15	44.29	9	47.3	18
Dez. 6	61.93	— 2	30.8	22	64.78	3	29.9	3	50.78	1	62.2	15	44.38	3	49.1	17
16	61.91	8	33.0	21	64.81	— 1	29.6	4	50.79	— 2	63.7	14	44.41	— 2	50.8	15
26	61.83	15	35.1	16	64.80	4	29.2	3	50.77	6	65.1	12	44.39	7	52.3	12
36	61.68		36.7		64.76		28.9		50.71		66.3		44.32		53.5	
Mittl. Ort	55.94		4.6		60.74		8.4		47.03		80.4		39.20		25.1	
	122)				125)				127)				131)			

1912	ν Persei. $3^m.9$.				5 H. Camelop. $4^m.5$.				η Tauri. $3^m.0$.				τ^6 Eridani. $4^m.1$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$3^h 39^m$		42° 18′		$3^h 40^m$		71° 3′		$3^h 42^m$		23° 50′		$3^h 43^m$		23° 30′	
	s		″		s		″		s		″		s		″	
Jan. 1	13.09	9	18.0	9	64.22	31	61.9	21	15.47	5	10.4	1	4.49	9	35.0	16
11	13.00	13	18.9	7	63.91	41	64.0	17	15.42	9	10.5	0	4.40	12	36.6	13
21	12.87	16	19.6	3	63.50	48	65.7	11	15.33	13	10.5	1	4.28	15	37.9	9
31	12.71	20	19.9	1	63.02	54	66.8	6	15.20	14	10.4	2	4.13	16	38.8	6
Febr. 10	12.51	21	20.0	2	62.48	57	67.4	1	15.06	17	10.2	3	3.97	18	39.4	2
20	12.30	21	19.8	6	61.91	57	67.5	5	14.89	16	9.9	4	3.79	18	39.6	1
März 1	12.09	21	19.2	8	61.34	55	67.0	10	14.73	16	9.5	4	3.61	19	39.5	6
11	11.88	19	18.4	10	60.79	50	66.0	15	14.57	15	9.1	6	3.42	16	38.9	9
21	11.69	15	17.4	11	60.29	41	64.5	18	14.42	12	8.5	5	3.26	14	38.0	12
31	11.54	11	16.3	13	59.88	32	62.7	22	14.30	8	8.0	5	3.12	11	36.8	16
April 10	11.43	6	15.0	14	59.56	20	60.5	23	14.22	5	7.5	5	3.01	7	35.2	18
20	11.37	0	13.6	13	59.36	8	58.2	25	14.17	1	7.0	3	2.94	3	33.4	22
30	11.37	6	12.3	13	59.28	5	55.7	25	14.18	5	6.7	3	2.91	2	31.2	23
Mai 10	11.43	14	11.0	12	59.33	20	53.2	27	14.23	11	6.4	0	2.93	7	28.9	28
20	11.57	19	9.8	9	59.53	32	50.5	23	14.34	16	6.4	2	3.00	12	26.1	27
30	11.76	24	8.9	6	59.85	44	48.2	20	14.50	20	6.6	3	3.12	16	23.4	27
Juni 9	12.00	29	8.3	4	60.29	54	46.2	18	14.70	24	6.9	6	3.28	20	20.7	28
19	12.29	33	7.9	2	60.83	63	44.4	14	14.94	28	7.5	7	3.48	24	17.9	26
29	12.62	36	7.7	1	61.46	70	43.0	9	15.22	30	8.2	8	3.72	27	15.3	25
Juli 9	12.98	38	7.8	4	62.16	77	42.1	6	15.52	32	9.0	10	3.99	29	12.8	24
19	13.36	40	8.2	7	62.93	80	41.5	2	15.84	34	10.0	11	4.28	31	10.4	20
29	13.76	41	8.9	8	63.73	83	41.3	2	16.18	33	11.1	12	4.59	31	8.4	17
Aug. 8	14.17	40	9.7	11	64.56	83	41.5	7	16.51	34	12.3	12	4.90	31	6.7	13
18	14.57	40	10.8	12	65.39	83	42.2	11	16.85	33	13.5	13	5.21	31	5.4	9
28	14.97	38	12.0	14	66.22	80	43.3	14	17.18	32	14.8	12	5.52	31	4.5	4
Sept. 7	15.35	37	13.4	15	67.02	77	44.7	19	17.50	31	16.0	11	5.83	29	4.1	1
17	15.72	35	14.9	16	67.79	72	46.6	21	17.81	28	17.1	11	6.12	26	4.2	5
27	16.07	32	16.5	17	68.51	67	48.7	24	18.09	27	18.2	9	6.38	24	4.7	9
Okt. 7	16.39	28	18.2	18	69.18	59	51.1	26	18.36	24	19.1	9	6.62	22	5.6	14
17	16.67	26	20.0	17	69.77	51	53.7	29	18.60	21	20.0	8	6.84	18	7.0	17
27	16.93	22	21.7	17	70.28	43	56.6	30	18.81	19	20.8	6	7.02	16	8.7	19
Nov. 6	17.15	18	23.4	17	70.71	32	59.6	30	19.00	16	21.4	6	7.18	12	10.6	21
16	17.33	13	25.1	17	71.03	22	62.6	31	19.16	12	22.0	5	7.30	8	12.7	22
26	17.46	9	26.8	15	71.25	10	65.7	30	19.28	9	22.5	4	7.38	4	14.9	23
Dez. 6	17.55	5	28.3	14	71.35	2	68.7	28	19.37	4	22.9	4	7.42	1	17.2	21
16	17.60	1	29.7	12	71.33	15	71.5	26	19.41	0	23.3	2	7.43	4	19.3	20
26	17.59	7	30.9	11	71.18	25	74.1	22	19.41	3	23.5	2	7.39	7	21.3	18
36	17.52		32.0		70.93		76.3		19.38		23.7		7.32		23.1	
Mittl. Ort	12.63		4.8		62.95		44.4		15.03		1.3		3.66		32.8	
	134)				138)				139)				140)			

1912	β Reticuli. 3ᵐ.8. AR.		Dekl. —		η Eridani. 4ᵐ.1. AR.		Dekl. —		ζ Persei. 2ᵐ.9. AR.		Dekl. +		γ Hydri. 3ᵐ.1. AR.		Dekl. —	
	$3^h 43^m$		65° 4′		$3^h 46^m$		36° 27′		$3^h 48^m$		31° 37′		$3^h 48^m$		74° 29′	
Jan. 1	$8^s.38$	37	70″.2	20	$10^s.78$	13	63″.3	19	$36^s.29$	6	33″.8	5	$40^s.32$	65	101″.1	19
11	8.01	43	72.2	14	10.65	15	65.2	15	36.23	10	34.3	3	39.67	74	103.0	14
21	7.58	47	73.6	9	10.50	19	66.7	10	36.13	13	34.6	1	38.93	81	104.4	8
31	7.11	50	74.5	3	10.31	21	67.7	6	36.00	16	34.7	0	38.12	85	105.2	3
Febr. 10	6.61	52	74.8	2	10.10	22	68.3	1	35.84	17	34.7	3	37.27	87	105.5	3
20	6.09	51	74.6	9	9.88	23	68.4	3	35.67	18	34.4	4	36.40	87	105.2	9
März 1	5.58	50	73.7	13	9.65	22	68.1	8	35.49	18	34.0	5	35.53	84	104.3	14
11	5.08	46	72.4	19	9.43	21	67.3	13	35.31	16	33.5	7	34.69	78	102.9	19
21	4.62	42	70.5	23	9.22	18	66.0	16	35.15	14	32.8	8	33.91	72	101.0	24
31	4.20	35	68.2	28	9.04	14	64.4	20	35.01	10	32.0	8	33.19	62	98.6	28
April 10	3.85	28	65.4	30	8.90	11	62.4	24	34.91	5	31.2	9	32.57	52	95.8	30
20	3.57	20	62.4	33	8.79	5	60.0	26	34.86	1	30.3	7	32.05	39	92.8	33
30	3.37	12	59.1	36	8.74	1	57.4	29	34.85	5	29.6	7	31.66	26	89.5	36
Mai 10	(18) 3.25	2	55.5	40	(19) 8.73	6	54.5	34	34.90	10	28.9	5	31.40	13	85.9	36
20	3.23	8	51.5	37	8.79	10	51.1	31	(20) 35.00	17	28.4	4	(20) 31.27	3	82.3	41
30	3.31	17	47.8	36	8.89	16	48.0	32	35.17	21	28.0	1	31.30	17	78.2	36
Juni 9	3.48	25	44.2	35	9.05	20	44.8	32	35.38	25	27.9	1	31.47	30	74.6	34
19	3.73	34	40.7	33	9.25	24	41.6	30	35.63	29	28.0	3	31.77	43	71.2	32
29	4.07	41	37.4	29	9.49	28	38.6	28	35.92	32	28.3	5	32.20	55	68.0	28
Juli 9	4.48	46	34.5	26	9.77	31	35.8	25	36.24	34	28.8	6	32.75	65	65.2	26
19	4.94	51	31.9	21	10.08	32	33.3	22	36.58	35	29.4	9	33.40	72	62.6	21
29	5.45	54	29.8	15	10.40	34	31.1	17	36.93	36	30.3	10	34.12	80	60.5	15
Aug. 8	5.99	56	28.3	10	10.74	34	29.4	13	37.29	36	31.3	10	34.92	82	59.0	9
18	6.55	57	27.3	3	11.08	34	28.1	8	37.65	35	32.3	12	35.74	83	58.1	3
28	7.12	55	27.0	2	11.42	33	27.3	2	38.00	35	33.5	12	36.57	82	57.8	3
Sept. 7	7.67	51	27.2	9	11.75	31	27.1	4	38.35	33	34.7	13	37.39	78	58.1	10
17	8.18	48	28.1	15	12.06	29	27.5	8	38.68	31	36.0	12	38.17	71	59.1	15
27	8.66	42	29.6	21	12.35	27	28.3	14	38.99	29	37.2	12	38.88	63	60.6	21
Okt. 7	9.08	35	31.7	25	12.62	23	29.7	18	39.28	26	38.4	12	39.51	52	62.7	26
17	9.43	27	34.2	29	12.85	19	31.5	24	39.54	24	39.6	12	40.03	39	65.3	29
27	9.70	18	37.1	32	13.04	16	33.7	25	39.78	20	40.8	11	40.42	24	68.2	32
Nov. 6	9.88	10	40.3	33	13.20	12	36.2	27	39.98	18	41.9	10	40.66	10	71.4	33
16	9.98	0	43.6	33	13.32	7	38.9	27	40.16	13	42.9	10	40.76	5	74.7	34
26	9.98	10	46.9	32	13.39	2	41.6	27	40.29	10	43.9	9	40.71	20	78.1	32
Dez. 6	9.88	18	50.1	30	13.41	1	44.3	26	40.39	5	44.8	8	40.51	35	81.3	30
16	9.70	26	53.1	26	13.40	6	46.9	24	40.44	1	45.6	6	40.16	49	84.3	26
26	9.44	34	55.7	23	13.34	11	49.3	21	40.45	3	46.2	6	39.67	60	86.9	23
36	9.10		58.0		13.23		51.4		40.42		46.8		39.07		89.2	
Mittl. Ort	5.52		61.6		9.65		58.7		35.82		23.0		35.41		62.3	
	141)				143)				144)				146)			

1912	9 H. Camelop. $5^m.5$ AR.		Dekl. +		ε Persei. $3^m.0$ AR.		Dekl. +		ξ Persei. $4^m.0$ AR.		Dekl. +		γ Eridani. $3^m.0$ AR.		Dekl. −	
	$3^h 49^m$		60° 51′		$3^h 51^m$		39° 45′		$3^h 53^m$		35° 32′		$3^h 53^m$		13° 45′	
Jan. 1	38.28	16	23.4	18	57.18	7	35.5	9	15.60	6	31.1	6	56.09	6	29.6	14
11	38.12	23	25.2	14	57.11	11	36.4	7	15.54	10	31.7	5	56.03	10	31.0	11
21	37.89	29	26.6	9	57.00	16	37.1	4	15.44	14	32.2	3	55.93	12	32.1	9
31	37.60	32	27.5	5	56.84	18	37.5	1	15.30	17	32.5	1	55.81	15	33.0	6
Febr. 10	37.28	36	28.0	1	56.66	20	37.6	2	15.13	18	32.6	2	55.66	16	33.6	3
20	36.92	36	28.1	4	56.46	20	37.4	4	14.95	20	32.4	4	55.50	17	33.9	0
März 1	36.56	34	27.7	9	56.26	21	37.0	7	14.75	18	32.0	6	55.33	16	33.9	2
11	36.22	32	26.8	12	56.05	18	36.3	8	14.57	18	31.4	7	55.17	16	33.7	6
21	35.90	27	25.6	16	55.87	16	35.5	10	14.39	15	30.7	9	55.01	13	33.1	8
31	35.63	21	24.0	18	55.71	11	34.5	12	14.24	10	29.8	10	54.88	10	32.3	12
April 10	35.42	13	22.2	21	55.60	7	33.3	12	14.14	6	28.8	10	54.78	7	31.1	14
20	35.29	4	20.1	21	55.53	1	32.1	11	14.08	1	27.8	10	54.71	2	29.7	16
30	35.25	4	18.0	21	55.52	5	31.0	11	14.07	4	26.8	9	54.69	2	28.1	19
Mai 10	35.29	13	15.9	21	55.57	10	29.9	10	14.11	10	25.9	7	54.71	6	26.2	20
20	35.42	24	13.8	21	55.67	18	28.9	9	14.21	17	25.2	6	54.77	12	24.2	24
30	35.66	31	11.7	16	55.85	22	28.0	6	14.38	21	24.6	4	54.89	16	21.8	24
Juni 9	35.97	38	10.1	14	56.07	27	27.4	4	14.59	26	24.2	2	55.05	19	19.4	24
19	36.35	44	8.7	11	56.34	31	27.0	1	14.85	29	24.0	1	55.24	23	17.0	23
29	36.79	50	7.6	8	56.65	34	26.9	1	15.14	33	24.1	3	55.47	26	14.7	23
Juli 9	37.29	53	6.8	3	56.99	37	27.0	3	15.47	35	24.4	5	55.73	28	12.4	21
19	37.82	56	6.5	0	57.36	38	27.3	6	15.82	36	24.9	7	56.01	30	10.3	19
29	38.38	58	6.5	3	57.74	39	27.9	8	16.18	38	25.6	8	56.31	30	8.4	17
Aug. 8	38.96	58	6.8	7	58.13	40	28.7	9	16.56	37	26.4	10	56.61	31	6.7	14
18	39.54	58	7.5	10	58.53	38	29.6	11	16.93	36	27.4	11	56.92	30	5.3	10
28	40.12	56	8.5	14	58.91	38	30.7	12	17.29	36	28.5	12	57.22	29	4.3	6
Sept. 7	40.68	54	9.9	16	59.29	36	31.9	14	17.65	35	29.7	13	57.51	29	3.7	2
17	41.22	51	11.5	18	59.65	35	33.3	14	18.00	33	31.0	13	57.80	26	3.5	1
27	41.73	48	13.3	21	60.00	32	34.7	15	18.33	31	32.3	13	58.06	25	3.6	6
Okt. 7	42.21	43	15.4	23	60.32	29	36.2	15	18.64	28	33.6	14	58.31	22	4.2	9
17	42.64	38	17.7	25	60.61	26	37.7	16	18.92	25	35.0	13	58.53	19	5.1	13
27	43.02	32	20.2	25	60.87	23	39.3	15	19.17	21	36.3	13	58.72	17	6.4	14
Nov. 6	43.34	27	22.7	26	61.10	19	40.8	15	19.38	19	37.6	12	58.89	14	7.8	17
16	43.61	19	25.3	26	61.29	15	42.3	14	19.57	15	38.8	12	59.03	10	9.5	18
26	43.80	11	27.9	26	61.44	11	43.7	14	19.72	10	40.0	11	59.13	6	11.3	18
Dez. 6	43.91	4	30.5	23	61.55	6	45.1	13	19.82	6	41.1	11	59.19	3	13.1	17
16	43.95	4	32.8	22	61.61	1	46.4	11	19.88	1	42.2	9	59.22	0	14.8	17
26	43.91	12	35.0	19	61.62	5	47.5	10	19.89	3	43.1	7	59.22	5	16.5	15
36	43.79		36.9		61.57		48.5		19.86		43.8		59.17		18.0	
Mittl. Ort	37.42		7.3		56.65		23.1		15.09		19.5		55.37		30.0	
			145)				147)				148)				149)	

1912	λ Tauri. (3ᵐ.5). AR.	Δ	Dekl. +	Δ	ν Tauri. 3ᵐ.9. AR.	Δ	Dekl. +	Δ	c Persei. 4ᵐ.0. AR.	Δ	Dekl. +	Δ	o¹ Eridani. 4ᵐ.1. AR.	Δ	Dekl. −	Δ
	3ʰ 55ᵐ		12° 14′		3ʰ 58ᵐ		5° 44′		4ʰ 2ᵐ		47° 28′		4ʰ 7ᵐ		7° 3′	
Jan. 1	48.69	4	38.9	4	28.98	4	49.7	7	16.74	7	56.0	12	34.84	5	56.8	12
11	48.65	8	38.5	4	28.94	8	49.0	6	16.67	13	57.2	10	34.79	8	58.0	10
21	48.57	11	38.1	3	28.86	11	48.4	5	16.54	18	58.2	8	34.71	11	59.0	8
31	48.46	13	37.8	3	28.75	13	47.9	4	16.36	21	59.0	3	34.60	13	59.8	6
Febr. 10	48.33	15	37.5	3	28.62	14	47.5	3	16.15	23	59.3	0	34.47	16	60.4	4
20	48.18	16	37.2	3	28.48	16	47.2	3	15.92	24	59.3	3	34.31	16	60.8	2
März 1	48.02	15	36.9	2	28.32	15	46.9	1	15.68	24	59.0	6	34.15	16	61.0	1
11	47.87	15	36.7	2	28.17	15	46.8	0	15.44	23	58.4	10	33.99	15	60.9	4
21	47.72	12	36.5	1	28.02	12	46.8	2	15.21	19	57.4	11	33.84	14	60.5	5
31	47.60	9	36.4	0	27.90	9	47.0	3	15.02	15	56.3	14	33.70	11	60.0	8
April 10	47.51	5	36.4	2	27.81	6	47.3	5	14.87	9	54.9	15	33.59	7	59.2	11
20	47.46	1	36.6	3	27.75	1	47.8	6	14.78	3	53.4	15	33.52	3	58.1	13
30	47.45	3	36.9	4	27.74	3	48.4	8	14.75	3	51.9	15	33.49	1	56.8	15
Mai 10	47.48	8	37.3	6	27.77	7	49.2	10	14.78	10	50.4	14	33.50	6	55.3	16
20	47.56	14	37.9	9	27.84	13	50.2	13	14.88	18	49.0	14	33.56	11	53.7	20
30	47.70	18	38.8	10	27.97	17	51.5	13	15.06	23	47.6	11	33.67	15	51.7	20
Juni 9	47.88	21	39.8	10	28.14	21	52.8	14	15.29	28	46.5	8	33.82	19	49.7	21
19	48.09	25	40.8	12	28.35	23	54.2	15	15.57	33	45.7	6	34.01	22	47.6	20
29	48.34	27	42.0	13	28.58	27	55.7	15	15.90	37	45.1	3	34.23	25	45.6	21
Juli 9	48.61	30	43.3	14	28.85	28	57.2	16	16.27	40	44.8	1	34.48	27	43.5	19
19	48.91	31	44.7	13	29.13	30	58.8	15	16.67	43	44.7	2	34.75	29	41.6	18
29	49.22	31	46.0	13	29.43	31	60.3	14	17.10	43	44.9	5	35.04	30	39.8	16
Aug. 8	49.53	32	47.3	13	29.74	31	61.7	13	17.53	44	45.4	7	35.34	30	38.2	14
18	49.85	31	48.6	11	30.05	30	63.0	11	17.97	43	46.1	10	35.64	31	36.8	10
28	50.16	30	49.7	9	30.35	30	64.1	9	18.40	43	47.1	11	35.95	29	35.8	8
Sept. 7	50.46	29	50.6	9	30.65	29	65.0	6	18.83	41	48.2	13	36.24	29	35.0	4
17	50.75	28	51.5	6	30.94	27	65.6	4	19.24	40	49.5	15	36.53	27	34.6	0
27	51.03	26	52.1	4	31.21	25	66.0	2	19.64	37	51.0	17	36.80	25	34.6	3
Okt. 7	51.29	23	52.5	3	31.46	24	66.2	0	20.01	34	52.7	17	37.05	23	34.9	7
17	51.52	21	52.8	1	31.70	21	66.2	3	20.35	30	54.4	18	37.28	21	35.6	9
27	51.73	19	52.9	1	31.91	18	65.9	4	20.65	27	56.2	18	37.49	18	36.5	11
Nov. 6	51.92	16	52.8	1	32.09	15	65.5	6	20.92	23	58.0	19	37.67	15	37.6	14
16	52.08	12	52.7	3	32.24	12	64.9	6	21.15	17	59.9	19	37.82	13	39.0	14
26	52.20	9	52.4	3	32.36	9	64.3	8	21.32	13	61.8	18	37.95	8	40.4	15
Dez. 6	52.29	6	52.1	4	32.45	5	63.5	7	21.45	7	63.6	17	38.03	5	41.9	15
16	52.35	1	51.7	4	32.50	2	62.8	7	21.52	2	65.3	16	38.08	1	43.4	14
26	52.36	2	51.3	4	32.52	3	62.1	7	21.54	5	66.9	13	38.09	2	44.8	13
36	52.34		50.9		32.49		61.4		21.49		68.2		38.07		46.1	
Mittl. Ort	48.16		32.4		28.41		44.7		16.07		42.3		34.14		59.3	
	150)				151)				152)				154)			

1912	α Horologii. $3^m.7$.				α Reticuli. $3^m.2$.				$υ^4$ Eridani. $3^m.3$.				δ Tauri. $3^m.8$.			
	AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +	
	$4^h\ 11^m$		42° 30′		$4^h\ 13^m$		62° 41′		$4^h\ 14^m$		34° 0′		$4^h\ 17^m$		17° 20′	
	s		″		s		″		s		″		s		″	
Jan. 1	6.45	13	43.4	21	20.00	29	43.8	24	34.94	10	48.2	20	52.07	3	20.3	1
11	6.32	17	45.5	18	19.71	36	46.2	18	34.84	13	50.2	18	52.04	6	20.2	1
21	6.15	21	47.3	14	19.35	41	48.0	14	34.71	17	52.0	13	51.98	10	20.1	2
31	5.94	24	48.7	8	18.94	45	49.4	8	34.54	19	53.3	9	51.88	12	19.9	2
Febr. 10	5.70	25	49.5	4	18.49	47	50.2	2	34.35	22	54.2	4	51.76	15	19.7	3
20	5.45	27	49.9	1	18.02	49	50.4	3	34.13	22	54.6	0	51.61	17	19.4	2
März 1	5.18	26	49.8	7	17.53	47	50.1	9	33.91	23	54.6	5	51.44	16	19.2	2
11	4.92	25	49.1	11	17.06	46	49.2	14	33.68	21	54.1	9	51.28	16	19.0	3
21	4.67	22	48.0	16	16.60	41	47.8	20	33.47	19	53.2	14	51.12	13	18.7	2
31	4.45	20	46.4	20	16.19	37	45.8	23	33.28	16	51.8	17	50.99	11	18.5	2
April 10	4.25	15	44.4	23	15.82	31	43.5	27	33.12	13	50.1	21	50.88	7	18.3	1
20	4.10	10	42.1	27	15.51	24	40.8	31	32.99	8	48.0	23	50.81	3	18.2	0
30	4.00	5	39.4	29	15.27	16	37.7	33	32.91	3	45.7	27	50.78	2	18.2	1
Mai 10	3.95	0	36.5	31	15.11	7	34.4	35	32.88	2	43.0	28	50.80	6	18.3	3
20	3.95	8	33.4	36	15.04	1	30.9	40	32.90	8	40.2	33	50.86	13	18.6	5
30	4.03	12	29.8	33	15.05	10	26.9	36	32.98	12	36.9	31	50.99	16	19.1	5
Juni 9	4.15	17	26.5	33	15.15	18	23.3	35	33.10	17	33.8	31	51.15	20	19.6	8
19	4.32	22	23.2	32	15.33	27	19.8	34	33.27	21	30.7	30	51.35	24	20.4	8
29	4.54	26	20.0	30	15.60	33	16.4	32	33.48	25	27.7	29	51.59	26	21.2	10
Juli 9	4.80	28	17.0	27	15.93	39	13.2	28	33.73	28	24.8	26	51.85	29	22.2	10
19	5.08	35	14.3	24	16.32	44	10.4	24	34.01	31	22.2	23	52.14	31	23.2	11
29	5.43	35	11.9	19	16.76	48	8.0	18	34.32	32	19.9	19	52.45	32	24.3	10
Aug. 8	5.78	35	10.0	14	17.24	51	6.2	14	34.64	32	18.0	15	52.77	32	25.3	11
18	6.13	36	8.6	9	17.75	52	4.8	7	34.96	34	16.5	9	53.09	32	26.4	10
28	6.49	36	7.7	3	18.27	51	4.1	1	35.30	33	15.6	5	53.41	32	27.4	9
Sept. 7	6.85	34	7.4	3	18.78	50	4.0	5	35.63	31	15.1	1	53.73	30	28.3	8
17	7.19	33	7.7	8	19.28	48	4.5	12	35.94	30	15.2	7	54.03	30	29.1	6
27	7.52	30	8.5	14	19.76	43	5.7	17	36.24	28	15.9	11	54.33	28	29.7	5
Okt. 7	7.82	26	9.9	19	20.19	37	7.4	23	36.52	26	17.0	17	54.61	26	30.2	4
17	8.08	23	11.8	24	20.56	31	9.7	27	36.78	22	18.7	20	54.87	24	30.6	3
27	8.31	19	14.2	26	20.87	24	12.4	31	37.00	19	20.7	24	55.11	21	30.9	1
Nov. 6	8.50	15	16.8	29	21.11	15	15.5	33	37.19	15	23.1	26	55.32	18	31.0	1
16	8.65	9	19.7	30	21.26	7	18.8	33	37.34	10	25.7	27	55.50	16	31.1	0
26	8.74	4	22.7	30	21.33	1	22.1	34	37.44	7	28.4	28	55.66	12	31.1	1
Dez. 6	8.78	0	25.7	29	21.32	10	25.5	32	37.51	2	31.2	26	55.78	7	31.0	1
16	8.78	6	28.6	27	21.22	19	28.7	29	37.53	3	33.8	25	55.85	4	30.9	2
26	8.72	10	31.3	24	21.03	26	31.6	26	37.50	7	36.3	23	55.89	0	30.7	1
36	8.62		33.7		20.77		34.2		37.43		38.6		55.89		30.6	
Mittl. Ort	5.04		39.6		17.27		38.0		33.77		45.9		51.47		12.6	
	155)				156)				160)				162)			

1912	ε Tauri. 3ᵐ.5. AR.		Dekl. +		α Tauri. 1ᵐ. AR.		Dekl. +		ν Eridani. 3ᵐ.8. AR.		Dekl. −		α Doradus. 3ᵐ.2. AR.		Dekl. −	
	4ʰ 23ᵐ		18° 59′		4ʰ 30ᵐ		16° 19′		4ʰ 31ᵐ		3° 31′		4ʰ 32ᵐ		55° 13′	
Jan. 1	29.20ˢ	2	17.7″	0	52.82ˢ	1	66.8″	2	56.01ˢ	3	50.4″	12	7.82ˢ	19	38.7″	25
11	29.18	6	17.7	1	52.81	6	66.6	2	55.98	6	51.6	10	7.63	24	41.2	22
21	29.12	10	17.6	1	52.75	9	66.4	2	55.92	10	52.6	8	7.39	30	43.4	16
31	29.02	13	17.5	2	52.66	13	66.2	2	55.82	12	53.4	6	7.09	33	45.0	11
Febr. 10	28.89	15	17.3	2	52.53	15	66.0	2	55.70	15	54.0	4	6.76	36	46.1	5
20	28.74	16	17.1	2	52.38	16	65.8	2	55.55	16	54.4	3	6.40	37	46.6	0
März 1	28.58	17	16.9	2	52.22	16	65.6	2	55.39	17	54.7	0	6.03	38	46.6	5
11	28.41	16	16.7	3	52.06	16	65.4	2	55.22	16	54.7	2	5.65	36	46.1	11
21	28.25	14	16.4	3	51.90	14	65.2	2	55.06	14	54.5	4	5.29	34	45.0	15
31	28.11	11	16.1	2	51.76	12	65.0	1	54.92	12	54.1	6	4.95	30	43.5	20
April 10	28.00	8	15.9	2	51.64	8	64.9	1	54.80	9	53.5	8	4.65	26	41.5	25
20	27.92	3	15.7	0	51.56	4	64.8	1	54.71	4	52.7	10	4.39	19	39.0	27
30	27.89	1	15.7	0	51.52	0	64.9	2	54.67	1	51.7	12	4.20	14	36.3	31
Mai 10	27.90	6	15.7	2	51.52	5	65.1	3	54.66	4	50.5	14	4.06	7	33.2	33
20	27.96	12	15.9	3	51.57	10	65.4	4	54.70	8	49.1	16	3.99	0	29.9	34
30	28.08	16	16.2	4	51.67	16	65.8	6	54.78	14	47.5	19	3.99	9	26.5	39
Juni 9	28.24	20	16.6	6	51.83	19	66.4	7	54.92	17	45.6	18	4.08	14	22.6	36
19	28.44	23	17.2	8	52.02	23	67.1	9	55.09	20	43.8	18	4.22	21	19.0	34
29	28.67	27	18.0	9	52.25	25	68.0	9	55.29	23	42.0	19	4.43	27	15.6	32
Juli 9	28.94	29	18.9	9	52.50	29	68.9	10	55.52	26	40.1	18	4.70	31	12.4	29
19	29.23	31	19.8	9	52.79	29	69.9	10	55.78	28	38.3	17	5.01	36	9.5	25
29	29.54	31	20.7	10	53.08	31	70.9	10	56.06	29	36.6	15	5.37	40	7.0	21
Aug. 8	29.85	33	21.7	10	53.39	32	71.9	10	56.35	30	35.1	13	5.77	41	4.9	15
18	30.18	32	22.7	10	53.71	32	72.9	10	56.65	30	33.8	10	6.18	44	3.4	10
28	30.50	33	23.7	8	54.03	32	73.9	8	56.95	30	32.8	8	6.62	43	2.4	4
Sept. 7	30.83	31	24.5	8	54.35	31	74.7	7	57.25	29	32.0	4	7.05	43	2.0	2
17	31.14	30	25.3	7	54.66	29	75.4	5	57.54	28	31.6	1	7.48	40	2.2	9
27	31.44	28	26.0	5	54.95	29	75.9	4	57.82	27	31.5	2	7.88	39	3.1	15
Okt. 7	31.72	27	26.5	4	55.24	27	76.3	3	58.09	25	31.7	5	8.27	34	4.6	20
17	31.99	25	26.9	3	55.51	25	76.6	2	58.34	23	32.2	8	8.61	29	6.6	25
27	32.24	22	27.2	3	55.76	22	76.8	0	58.57	20	33.0	11	8.90	24	9.1	29
Nov. 6	32.46	19	27.5	1	55.98	19	76.8	1	58.77	18	34.1	12	9.14	18	12.0	31
16	32.65	16	27.6	1	56.17	17	76.7	1	58.95	15	35.3	13	9.32	11	15.1	33
26	32.81	12	27.7	0	56.34	13	76.6	2	59.10	11	36.6	13	9.43	5	18.4	34
Dez. 6	32.93	9	27.7	1	56.47	9	76.4	2	59.21	8	37.9	14	9.48	2	21.8	32
16	33.02	4	27.6	0	56.56	5	76.2	2	59.29	3	39.3	13	9.46	10	25.0	31
26	33.06	0	27.6	1	56.61	1	76.0	2	59.32	0	40.6	12	9.36	16	28.1	27
36	33.06		27.5		56.62		75.8		59.32		41.8		9.20		30.8	
Mittl. Ort	28.57		9.6		52.16		59.2		55.26		54.3		5.69		35.2	
	164)				168)				169)				171)			

1912	53 Eridani. 3ᵐ.9. AR.		Dekl. −		τ Tauri. 4ᵐ.2. AR.		Dekl. +		Gr. 848. 6ᵐ.2. AR.		Dekl. +		4 Camelop. 5ᵐ.5. AR.		Dekl. +	
	4ʰ 34ᵐ		14° 28′		4ʰ 36ᵐ		22° 47′		4ʰ 36ᵐ		75° 46′		4ʰ 40ᵐ		56° 36′	
Jan. 1	9.82	4	29.8	16	58.37	0	28.7	1	61.20	26	73.5	26	41.22	5	20.7	19
11	9.78	7	31.4	14	58.37	5	28.8	2	60.94	41	76.1	23	41.17	13	22.6	16
21	9.71	12	32.8	11	58.32	10	29.0	0	60.53	55	78.4	19	41.04	19	24.2	13
31	9.59	14	33.9	9	58.22	13	29.0	0	59.98	65	80.3	13	40.85	24	25.5	10
Febr. 10	9.45	16	34.8	5	58.09	15	29.0	1	59.33	74	81.6	9	40.61	29	26.5	5
20	9.29	17	35.3	2	57.94	17	28.9	1	58.59	78	82.5	3	40.32	31	27.0	1
März 1	9.12	17	35.5	0	57.77	17	28.8	3	57.81	78	82.8	3	40.01	32	27.1	2
11	8.95	17	35.5	4	57.60	17	28.5	3	57.03	74	82.5	8	39.69	30	26.9	7
21	8.78	16	35.1	7	57.43	15	28.2	3	56.29	69	81.7	13	39.39	28	26.2	10
31	8.62	13	34.4	9	57.28	12	27.9	3	55.60	59	80.4	17	39.11	24	25.2	13
April 10	8.49	10	33.5	13	57.16	9	27.6	3	55.01	46	78.7	21	38.87	17	23.9	16
20	8.39	7	32.2	15	57.07	5	27.3	3	54.55	31	76.6	24	38.70	10	22.3	18
30	8.32	2	30.7	18	57.02	0	27.0	2	54.24	15	74.2	26	38.60	4	20.5	18
Mai 10	8.30	3	28.9	19	57.02	5	26.8	1	54.09	1	71.6	26	38.56	4	18.7	19
20	8.33	7	27.0	21	57.07	10	26.7	1	54.10	18	69.0	26	38.60	12	16.8	18
30	8.40	13	24.9	24	57.17	16	26.8	2	54.28	38	66.4	28	38.72	22	15.0	19
Juni 9	8.53	16	22.5	24	57.33	19	27.0	3	54.66	51	63.6	24	38.94	28	13.1	16
19	8.69	19	20.1	23	57.52	23	27.3	4	55.17	65	61.2	20	39.22	34	11.5	13
29	8.88	22	17.8	23	57.75	26	27.7	6	55.82	77	59.2	18	39.56	39	10.2	11
Juli 9	9.11	25	15.5	21	58.01	29	28.3	7	56.59	88	57.4	15	39.95	44	9.1	8
19	9.36	28	13.4	20	58.30	31	29.0	8	57.47	97	55.9	11	40.39	47	8.3	6
29	9.64	29	11.4	18	58.61	32	29.8	8	58.44	103	54.8	7	40.86	51	7.7	2
Aug. 8	9.93	30	9.6	14	58.93	33	30.6	8	59.47	107	54.1	2	41.37	52	7.5	1
18	10.23	30	8.2	11	59.26	33	31.4	8	60.54	109	53.9	1	41.89	52	7.6	3
28	10.53	30	7.1	6	59.59	33	32.2	8	61.63	110	54.0	6	42.41	52	7.9	6
Sept. 7	10.83	29	6.5	3	59.92	33	33.0	7	62.73	109	54.6	10	42.93	52	8.5	9
17	11.12	28	6.2	1	60.25	31	33.7	7	63.82	105	55.6	13	43.45	51	9.4	11
27	11.40	27	6.3	5	60.56	30	34.4	5	64.87	101	56.9	17	43.96	48	10.5	14
Okt. 7	11.67	25	6.8	10	60.86	28	34.9	5	65.88	95	58.6	21	44.44	46	11.9	16
17	11.92	23	7.8	13	61.14	26	35.4	4	66.83	85	60.7	23	44.90	42	13.5	18
27	12.15	20	9.1	15	61.40	24	35.8	4	67.68	75	63.0	27	45.32	38	15.3	19
Nov. 6	12.35	18	10.6	18	61.64	22	36.2	3	68.43	63	65.7	28	45.70	33	17.2	20
16	12.53	14	12.4	19	61.86	17	36.5	2	69.06	49	68.5	30	46.03	27	19.2	22
26	12.67	10	14.3	20	62.03	14	36.7	2	69.55	34	71.5	31	46.30	21	21.4	22
Dez. 6	12.77	7	16.3	19	62.17	11	36.9	2	69.89	17	74.6	30	46.51	14	23.6	22
16	12.84	3	18.2	19	62.28	6	37.1	2	70.06	0	77.6	29	46.65	6	25.8	21
26	12.87	2	20.1	17	62.34	1	37.3	1	70.06	17	80.5	28	46.71	1	27.9	19
36	12.85		21.8		62.35		37.4		69.89		83.3		46.70		29.8	
Mittl. Ort	8.96		31.9		57.69		19.9		58.26		57.8		40.04		7.0	
	172)				174)				173)				175)			

1912	9 Camelop. $4^m.3$. AR.		Dekl. +		π^5 Orionis. $3^m.7$. AR.		Dekl. +		ι Aurigae. $2^m.7$. AR.		Dekl. +		10 Camelop. $4^m.1$. AR.		Dekl. +	
	$4^h 45^m$		66° 11′		$4^h 49^m$		2° 17′		$4^h 51^m$		33° 1′		$4^h 55^m$		60° 18′	
Jan. 1	19.32	10	54.8	23	40.74	1	55.3	9	16.44	0	49.6	7	36.55	5	66.7	21
11	19.22	19	57.1	20	40.73	4	54.4	8	16.44	5	50.3	7	36.50	13	68.8	19
21	19.03	28	59.1	17	40.69	9	53.6	7	16.39	10	51.0	4	36.37	20	70.7	16
31	18.75	36	60.8	13	40.60	11	52.9	5	16.29	13	51.4	4	36.17	27	72.3	11
Febr. 10	18.39	41	62.1	8	40.49	14	52.4	4	16.16	17	51.8	2	35.90	31	73.4	8
20	17.98	44	62.9	3	40.35	16	52.0	3	15.99	18	52.0	1	35.59	34	74.2	4
März 1	17.54	46	63.2	2	40.19	16	51.7	1	15.81	19	51.9	1	35.25	37	74.6	1
11	17.08	44	63.0	7	40.03	16	51.6	1	15.62	19	51.8	4	34.88	35	74.5	6
21	16.64	40	62.3	12	39.87	15	51.7	2	15.43	18	51.4	5	34.53	32	73.9	9
31	16.24	34	61.1	14	39.72	13	51.9	4	15.25	15	50.9	6	34.21	28	73.0	13
April 10	15.90	27	59.7	18	39.59	9	52.3	5	15.10	10	50.3	7	33.93	22	71.7	15
20	15.63	18	57.9	21	39.50	6	52.8	7	15.00	7	49.6	7	33.71	15	70.2	18
30	15.45	8	55.8	22	39.44	2	53.5	9	14.93	1	48.9	7	33.56	7	68.4	20
Mai 10	15.37	2	53.6	22	39.42	2	54.4	10	14.92	3	48.2	7	33.49	1	66.4	20
20	15.39	13	51.4	23	39.44	7	55.4	12	14.95	9	47.5	5	33.50	11	64.4	20
30	15.52	26	49.1	24	39.51	13	56.6	15	15.04	16	47.0	6	33.61	20	62.4	22
Juni 9	15.78	33	46.7	20	39.64	16	58.1	14	15.20	19	46.4	3	33.81	27	60.2	18
19	16.11	42	44.7	19	39.80	20	59.5	15	15.39	24	46.1	2	34.08	35	58.4	16
29	16.53	49	42.8	15	40.00	22	61.0	15	15.63	27	45.9	0	34.43	40	56.8	14
Juli 9	17.02	56	41.3	12	40.22	25	62.5	16	15.90	31	45.9	1	34.83	46	55.4	11
19	17.58	61	40.1	9	40.47	27	64.1	14	16.21	32	46.0	2	35.29	51	54.3	8
29	18.19	65	39.2	5	40.74	29	65.5	14	16.53	35	46.2	4	35.80	54	53.5	5
Aug. 8	18.84	68	38.7	2	41.03	30	66.9	11	16.88	35	46.6	5	36.34	55	53.0	3
18	19.52	70	38.5	1	41.33	30	68.0	10	17.23	37	47.1	6	36.89	58	52.7	1
28	20.22	69	38.6	5	41.63	30	69.0	7	17.60	36	47.7	6	37.47	58	52.8	4
Sept. 7	20.91	69	39.1	8	41.93	30	69.7	5	17.96	35	48.3	7	38.05	58	53.2	7
17	21.60	67	39.9	12	42.23	29	70.2	2	18.31	35	49.0	7	38.63	56	53.9	9
27	22.27	65	41.1	15	42.52	27	70.4	1	18.66	34	49.7	7	39.19	55	54.8	13
Okt. 7	22.92	61	42.6	17	42.79	27	70.3	3	19.00	32	50.4	7	39.74	52	56.1	15
17	23.53	56	44.3	21	43.06	24	70.0	6	19.32	30	51.1	8	40.26	48	57.6	17
27	24.09	51	46.4	22	43.30	23	69.4	8	19.62	28	51.9	8	40.74	43	59.3	20
Nov. 6	24.60	43	48.6	25	43.53	20	68.6	9	19.90	24	52.7	7	41.17	39	61.3	21
16	25.03	35	51.1	25	43.73	17	67.7	11	20.14	21	53.4	8	41.56	33	63.4	22
26	25.38	27	53.6	27	43.90	13	66.6	11	20.35	17	54.2	8	41.89	25	65.6	23
Dez. 6	25.65	16	56.3	26	44.03	10	65.5	11	20.52	13	55.0	9	42.14	17	67.9	24
16	25.81	6	58.9	26	44.13	6	64.4	10	20.65	8	55.9	7	42.31	9	70.3	22
26	25.87	4	61.5	24	44.19	1	63.4	10	20.73	3	56.6	7	42.40	0	72.5	22
36	25.83		63.9		44.20		62.4		20.76		57.3		42.40		74.7	
Mittl. Ort	17.57		40.3		39.98		50.0		15.65		39.4		35.67		53.3	
			178)				180)				181)				182)	

1912	ε Aurigae. ($3^m.2$). AR.	Diff.	Dekl. +	Diff.	ι Tauri. $4^m.8$. AR.	Diff.	Dekl. +	Diff.	η Aurigae. $3^m.3$. AR.	Diff.	Dekl. +	Diff.	ε Leporis. $3^m.2$. AR.	Diff.	Dekl. —	Diff.
	$4^h\ 55^m$		43° 41′		$4^h\ 57^m$		21° 27′		$5^h\ 0^m$		41° 6′		$5^h\ 1^m$		22° 28′	
Jan. 1	40.02 s	0	49.9 ″	13	50.82 s	1	62.6 ″	1	21.40 s	1	70.0 ″	12	45.16 s	2	77.0 ″	21
11	40.02	6	51.2	11	50.83	4	62.7	1	21.41	5	71.2	10	45.14	7	79.1	18
21	39.96	12	52.3	10	50.79	8	62.8	0	21.36	11	72.2	9	45.07	11	80.9	15
31	39.84	16	53.3	7	50.71	11	62.8	0	21.25	15	73.1	6	44.96	15	82.4	12
Febr. 10	39.68	19	54.0	4	50.60	14	62.8	0	21.10	18	73.7	4	44.81	17	83.6	8
20	39.49	23	54.4	2	50.46	17	62.8	1	20.92	21	74.1	2	44.64	18	84.4	4
März 1	39.26	23	54.6	2	50.29	17	62.7	2	20.71	22	74.3	1	44.46	20	84.8	0
11	39.03	23	54.4	4	50.12	17	62.5	1	20.49	22	74.2	4	44.26	20	84.8	3
21	38.80	20	54.0	7	49.95	16	62.4	3	20.27	20	73.8	6	44.06	18	84.5	7
31	38.60	18	53.3	8	49.79	13	62.1	2	20.07	17	73.2	8	43.88	16	83.8	10
April 10	38.42	13	52.5	11	49.66	11	61.9	2	19.90	13	72.4	9	43.72	13	82.8	14
20	38.29	9	51.4	12	49.55	6	61.7	2	19.77	8	71.5	11	43.59	10	81.4	16
30	38.20	3	50.2	12	49.49	2	61.5	1	19.69	3	70.4	11	43.49	6	79.8	19
Mai 10	38.17	3	49.0	12	49.47	3	61.4	0	19.66	2	69.3	10	43.43	1	77.9	22
20	38.20	9	47.8	12	49.50	8	61.4	1	19.68	8	68.3	11	43.42	4	75.7	24
30	38.29	17	46.6	12	49.58	13	61.5	2	19.76	16	67.2	11	43.46	9	73.3	28
Juni 9	[5] 38.46	21	45.4	10	[6] 49.71	18	61.7	3	[6] 19.92	20	66.1	8	[7] 43.55	12	70.5	26
19	38.67	26	44.4	8	49.89	21	62.0	4	20.12	25	65.3	7	43.67	17	67.9	26
29	38.93	30	43.6	6	50.10	24	62.4	5	20.37	29	64.6	5	43.84	21	65.3	26
Juli 9	39.23	34	43.0	4	50.34	27	62.9	7	20.66	32	64.1	3	44.05	23	62.7	24
19	39.57	37	42.6	2	50.61	29	63.6	6	20.98	36	63.8	2	44.28	26	60.3	22
29	39.94	39	42.4	0	50.90	31	64.2	7	21.34	37	63.6	0	44.54	28	58.1	19
Aug. 8	40.33	40	42.4	2	51.21	32	64.9	7	21.71	38	63.6	2	44.82	29	56.2	16
18	40.73	41	42.6	3	51.53	33	65.6	7	22.09	40	63.8	3	45.11	31	54.6	12
28	41.14	42	42.9	5	51.86	33	66.3	6	22.49	40	64.1	5	45.42	30	53.4	8
Sept. 7	41.56	41	43.4	7	52.19	32	66.9	6	22.89	39	64.6	6	45.72	31	52.6	3
17	41.97	40	44.1	8	52.51	32	67.5	5	23.28	39	65.2	7	46.03	30	52.3	2
27	42.37	39	44.9	9	52.83	31	68.0	3	23.67	38	65.9	8	46.33	28	52.5	7
Okt. 7	42.76	37	45.8	11	53.14	30	68.3	3	24.05	36	66.7	10	46.61	27	53.2	11
17	43.13	35	46.9	11	53.44	27	68.6	3	24.41	34	67.7	10	46.88	25	54.3	16
27	43.48	32	48.0	13	53.71	26	68.9	1	24.75	31	68.7	10	47.13	23	55.9	19
Nov. 6	43.80	28	49.3	13	53.97	23	69.0	1	25.06	28	69.7	12	47.36	20	57.8	21
16	44.08	24	50.6	14	54.20	19	69.1	1	25.34	25	70.9	12	47.56	16	59.9	23
26	44.32	20	52.0	14	54.39	17	69.2	0	25.59	19	72.1	13	47.72	13	62.2	25
Dez. 6	44.52	14	53.4	14	54.56	12	69.2	1	25.78	15	73.4	12	47.85	9	64.7	24
16	44.66	9	54.8	14	54.68	8	69.3	0	25.93	9	74.6	13	47.94	4	67.1	24
26	44.75	3	56.2	13	54.76	3	69.3	1	26.02	4	75.9	12	47.98	1	69.5	22
36	44.78		57.5		54.79		69.4		26.06		77.1		47.97		71.7	
Mittl. Ort	39.08		38.4		50.06		54.2		20.48		58.9		44.13		79.2	
	183)				184)				185)				186)			

1912	β Eridani. $2^m.7$. AR.		Dekl. −		μ Aurigae. $5^m.1$. AR.		Dekl. +		19 H. Camelop. $5^m.1$. AR.		Dekl. +		α Aurigae. 1^m. AR.		Dekl. +	
	$5^h\ 3^m$		$5°\ 11'$		$5^h\ 7^m$		$38°\ 22'$		$5^h\ 7^m$		$79°\ 7'$		$5^h\ 10^m$		$45°\ 54'$	
Jan. 1	32.22	0	53.8	14	25.19	1	62.6	10	66.53	21	70.4	29	12.22	1	45.4	14
11	32.22	5	55.2	12	25.20	4	63.6	9	66.32	43	73.3	26	12.23	5	46.8	13
21	32.17	8	56.4	10	25.16	9	64.5	8	65.89	63	75.9	23	12.18	11	48.1	11
31	32.09	11	57.4	7	25.07	14	65.3	6	65.26	80	78.2	18	12.07	15	49.2	9
Febr. 10	31.98	15	58.1	6	24.93	17	65.9	4	64.46	92	80.0	13	11.92	20	50.1	6
20	31.83	16	58.7	3	24.76	20	66.3	2	63.54	100	81.3	7	11.72	23	50.7	3
März 1	31.67	17	59.0	1	24.56	21	66.5	1	62.54	104	82.0	2	11.49	24	51.0	0
11	31.50	17	59.1	1	24.35	21	66.4	3	61.50	103	82.2	4	11.25	24	51.0	3
21	31.33	15	59.0	3	24.14	19	66.1	4	60.47	97	81.8	10	11.01	23	50.7	6
31	31.18	14	58.7	6	23.95	17	65.7	7	59.50	86	80.8	14	10.78	19	50.1	9
April 10	31.04	11	58.1	8	23.78	13	65.0	8	58.64	73	79.4	19	10.59	15	49.2	10
20	30.93	7	57.3	10	23.65	9	64.2	9	57.91	55	77.5	22	10.44	11	48.2	12
30	30.86	4	56.3	12	23.56	3	63.3	10	57.36	37	75.3	25	10.33	5	47.0	13
Mai 10	30.82	1	55.1	14	23.53	2	62.3	9	56.99	16	72.8	27	10.28	1	45.7	14
20	30.83	5	53.7	15	23.55	7	61.4	9	56.83	7	70.1	27	10.29	8	44.3	13
30	30.88	10	52.2	19	23.62	15	60.5	9	56.90	32	67.4	29	10.37	13	43.0	12
Juni 9	30.98	14	50.3	18	23.77	18	59.6	7	57.22	49	64.3	26	10.50	22	41.8	13
19	31.12	18	48.5	18	23.95	24	58.9	6	57.71	70	61.7	25	10.72	25	40.5	10
29	31.30	21	46.7	18	24.19	27	58.3	4	58.41	86	59.2	21	10.97	30	39.5	9
Juli 9	31.51	23	44.9	18	24.46	31	57.9	3	59.27	101	57.1	20	11.27	33	38.6	6
19	31.74	26	43.1	17	24.77	33	57.6	1	60.28	114	55.1	16	11.60	37	38.0	5
29	32.00	28	41.4	15	25.10	36	57.5	0	61.42	125	53.5	12	11.97	39	37.5	3
Aug. 8	32.28	29	39.9	13	25.46	37	57.5	2	62.67	133	52.3	8	12.36	42	37.2	0
18	32.57	29	38.6	10	25.83	38	57.7	3	64.00	139	51.5	4	12.78	42	37.2	1
28	32.86	30	37.6	8	26.21	38	58.0	4	65.39	142	51.1	0	13.20	43	37.3	3
Sept. 7	33.16	30	36.8	4	26.59	38	58.4	5	66.81	143	51.1	5	13.63	42	37.6	5
17	33.46	28	36.4	0	26.97	38	58.9	6	68.24	141	51.6	9	14.05	43	38.1	6
27	33.74	29	36.4	3	27.35	37	59.5	7	69.65	138	52.5	13	14.48	41	38.7	8
Okt. 7	34.03	26	36.7	6	27.72	35	60.2	8	71.03	130	53.8	17	14.89	39	39.5	9
17	34.29	25	37.3	9	28.07	33	61.0	8	72.33	120	55.5	21	15.28	37	40.4	11
27	34.54	24	38.2	12	28.40	31	61.8	9	73.53	109	57.6	23	15.65	35	41.5	12
Nov. 6	34.78	20	39.4	13	28.71	28	62.7	10	74.62	93	59.9	27	16.00	31	42.7	13
16	34.98	18	40.7	15	28.99	25	63.7	10	75.55	76	62.6	29	16.31	27	44.0	14
26	35.16	14	42.2	16	29.24	20	64.7	10	76.31	57	65.5	30	16.58	23	45.4	15
Dez. 6	35.30	10	43.8	16	29.44	15	65.7	11	76.88	36	68.5	31	16.81	17	46.9	15
16	35.40	7	45.4	15	29.59	10	66.8	11	77.24	13	71.6	31	16.98	10	48.4	15
26	35.47	2	46.9	14	29.69	4	67.9	10	77.37	12	74.7	30	17.08	5	49.9	15
36	35.49		48.3		29.73		68.9		77.25		77.7		17.13		51.4	
Mittl. Ort	31.38		58.4		24.26		52.1		61.86		56.2		11.15		34.1	
	188)				192)				191)				193)			

1912	β Orionis. 1m. AR.		β Orionis. Dekl. −		ϑ Doradus. 4m.8. AR.		ϑ Doradus. Dekl. −		γ Orionis. 1m.7. AR.		γ Orionis. Dekl. +		β Tauri. 1m.8. AR.		β Tauri. Dekl. +	
	$5^h\,10^m$		$8°\,17'$		$5^h\,13^m$		$67°\,16'$		$5^h\,20^m$		$6°\,16'$		$5^h\,20^m$		$28°\,32'$	
	s		"		s		"		s		"		s		"	
Jan. 1	19.36		65.2		52.86		63.9		25.45		20.6		44.55		11.3	
11	19.36	0	66.7	15	52.59	27	66.9	30	25.48	3	19.8	8	44.58	3	11.8	5
21	19.32	4	68.1	14	52.22	37	69.5	26	25.45	3	19.1	7	44.56	2	12.2	4
31	19.24	8	69.2	11	51.78	44	71.6	21	25.39	6	18.5	6	44.50	6	12.6	4
Febr. 10	19.12	12	70.1	9	51.27	51	73.3	17	25.29	10	18.0	5	44.39	11	12.9	3
20	18.98	14	70.7	6	50.71	56	74.4	11	25.16	13	17.7	3	44.24	15	13.2	3
März 1	18.82	16	71.1	4	50.12	59	75.0	6	25.00	16	17.5	2	44.07	17	13.3	1
11	18.64	18	71.2	1	49.51	61	75.0	0	24.84	16	17.3	2	43.89	18	13.3	0
21	18.47	17	71.1	1	48.90	61	74.4	6	24.67	17	17.3	0	43.70	19	13.1	2
31	18.31	16	70.7	4	48.32	58	73.3	11	24.52	15	17.4	1	43.53	17	12.9	2
April 10	18.16	15	70.1	6	47.78	54	71.8	15	24.38	14	17.6	2	43.38	15	12.5	4
20	18.04	12	69.2	9	47.29	49	69.7	21	24.26	12	18.0	4	43.25	13	12.1	4
30	17.96	8	68.1	11	46.86	43	67.3	24	24.18	8	18.5	5	43.17	8	11.7	4
Mai 10	17.92	4	66.8	13	46.52	34	64.5	28	24.14	4	19.1	6	43.13	4	11.2	5
20	17.92	0	65.3	15	46.26	26	61.4	31	24.15	1	19.9	8	43.14	1	10.8	4
30	17.96	4	63.6	17	46.10	16	58.1	33	24.19	4	20.8	9	43.19	5	10.4	4
Juni 9	18.05	9	61.8	18	46.03	7	54.6	35	24.28	9	21.8	10	43.30	11	10.1	3
19	18.19	14	59.7	21	46.08	5	50.8	38	24.43	15	23.0	12	43.47	17	9.9	2
29	18.36	17	57.7	20	46.22	14	47.3	35	24.60	17	24.2	12	43.67	20	9.8	1
Juli 9	18.56	20	55.7	20	46.45	23	43.9	34	24.80	20	25.4	12	43.90	23	9.9	1
19	18.79	23	53.8	19	46.77	32	40.8	31	25.04	24	26.6	12	44.17	27	9.9	0
29	19.04	25	52.0	18	47.17	40	38.0	28	25.29	25	27.8	12	44.47	30	10.1	2
Aug. 8	19.31	27	50.4	16	47.64	47	35.5	25	25.57	28	28.9	11	44.78	31	10.4	3
18	19.60	29	49.1	13	48.16	52	33.6	19	25.86	29	29.9	10	45.11	33	10.7	3
28	19.90	30	48.0	11	48.73	57	32.2	14	26.16	30	30.7	8	45.45	34	11.1	4
Sept. 7	20.19	29	47.3	7	49.32	59	31.5	7	26.46	30	31.3	6	45.80	35	11.5	4
17	20.49	30	46.9	4	49.92	60	31.3	2	26.76	30	31.7	4	46.14	34	11.9	4
27	20.78	29	46.9	0	50.50	58	31.8	5	27.06	30	31.9	2	46.49	35	12.3	4
Okt. 7	21.06	28	47.2	3	51.07	57	33.0	12	27.35	29	31.8	1	46.82	33	12.6	3
17	21.33	27	48.0	8	51.59	52	34.8	18	27.64	29	31.5	3	47.15	33	12.9	3
27	21.59	26	49.0	10	52.05	46	37.1	23	27.91	27	31.0	5	47.46	31	13.3	4
Nov. 6	21.82	23	50.3	13	52.44	39	39.9	28	28.16	25	30.3	7	47.75	29	13.6	3
16	22.03	21	51.8	15	52.74	30	43.0	31	28.39	23	29.5	8	48.01	26	13.9	3
26	22.21	18	53.5	17	52.95	21	46.4	34	28.59	20	28.6	9	48.25	24	14.3	4
Dez. 6	22.36	15	55.3	18	53.05	10	49.9	35	28.76	17	27.6	10	48.44	19	14.7	4
16	22.47	11	57.0	17	53.04	1	53.4	35	28.89	13	26.6	10	48.60	16	15.1	4
26	22.54	7	58.7	17	52.93	11	56.9	35	28.98	9	25.7	9	48.71	11	15.5	4
36	22.56	2	60.4	17	52.71	22	60.0	31	29.03	5	24.8	9	48.77	6	16.0	5
Mittl. Ort	18.48		69.6		49.31		63.5		24.63		14.2		43.68		2.3	
	194)				196)				201)				202)			

1932	17 Camelop. $5^m.9$ AR. $5^h\,21^m$	Δ	Dekl. + $62°\,59'$	Δ	δ Orionis. $2^m.2$ AR. $5^h\,27^m$	Δ	Dekl. − $0°\,21'$	Δ
Jan. 1	53.14	1	54.1	23	31.46	2	43.3	12
11	53.13	10	56.4	22	31.48	2	44.5	10
21	53.03	18	58.6	18	31.46	6	45.5	9
31	52.85	26	60.4	15	31.40	10	46.4	7
Febr. 10	52.59	33	61.9	11	31.30	13	47.1	5
20	52.26	37	63.0	7	31.17	15	47.6	3
März 1	51.89	39	63.7	2	31.02	17	47.9	2
11	51.50	40	63.9	2	30.85	16	48.1	0
21	51.10	37	63.7	6	30.69	16	48.1	2
31	50.73	34	63.1	11	30.53	15	47.9	4
April 10	50.39	28	62.0	14	30.38	12	47.5	6
20	50.11	21	60.6	17	30.26	8	46.9	7
30	49.90	13	58.9	19	30.18	5	46.2	9
Mai 10	49.77	4	57.0	21	30.13	1	45.3	11
20	49.73	5	54.9	21	30.12	3	44.2	12
30	49.78	14	52.8	22	30.15	8	43.0	14
Juni 9	49.92	26	50.6	22	30.23	13	41.6	16
19	[12]50.18	32	48.4	20	[13]30.36	16	40.0	15
29	50.50	39	46.4	17	30.52	19	38.5	15
Juli 9	50.89	46	44.7	15	30.71	23	37.0	15
19	51.35	51	43.2	12	30.94	24	35.5	15
29	51.86	56	42.0	10	31.18	27	34.0	13
Aug. 8	52.42	58	41.0	7	31.45	28	32.7	12
18	53.00	61	40.3	3	31.73	30	31.5	9
28	53.61	63	40.0	1	32.03	29	30.6	6
Sept. 7	54.24	63	39.9	3	32.32	29	30.0	4
17	54.87	63	40.2	6	32.61	30	29.6	1
27	55.50	61	40.8	9	32.91	29	29.5	2
Okt. 7	56.11	60	41.7	13	33.20	28	29.7	6
17	56.71	55	43.0	15	33.48	27	30.3	7
27	57.26	52	44.5	17	33.75	25	31.0	10
Nov. 6	57.78	46	46.2	19	34.00	23	32.0	12
16	58.24	40	48.1	22	34.23	20	33.2	13
26	58.64	32	50.3	23	34.43	17	34.5	14
Dez. 6	58.96	24	52.6	24	34.60	13	35.9	14
16	59.20	15	55.0	24	34.73	9	37.3	13
26	59.35	5	57.4	23	34.82	5	38.6	13
36	59.40		59.7		34.87		39.9	
Mittl. Ort	51.27		41.8		30.60		49.0	
	203)				206)			

1932	Gr. 966. $6^m.6$ AR. $5^h\,27^m$	Δ	Dekl. + $74°\,59'$	Δ	α Leporis. $2^m.6$ AR. $5^h\,28^m$	Δ	Dekl. − $17°\,52'$	Δ
Jan. 1	60.60	5	27.1	28	51.92	0	61.0	20
11	60.55	22	29.9	26	51.92	4	63.0	18
21	60.33	38	32.5	24	51.88	8	64.8	16
31	59.95	51	34.9	18	51.80	12	66.4	12
Febr. 10	59.44	62	36.7	15	51.68	15	67.6	9
20	58.82	69	38.2	10	51.53	18	68.5	6
März 1	58.13	73	39.2	4	51.35	18	69.1	2
11	57.40	73	39.6	2	51.17	19	69.3	1
21	56.67	71	39.4	7	50.98	18	69.2	4
31	55.96	64	38.7	11	50.80	17	68.8	8
April 10	55.32	55	37.6	15	50.63	14	68.0	10
20	54.77	44	36.1	21	50.49	11	67.0	14
30	54.33	30	34.0	23	50.38	7	65.6	16
Mai 10	54.03	15	31.7	25	50.31	3	64.0	18
20	53.88	1	29.2	26	50.28	2	62.2	21
30	53.89	15	26.6	26	50.30	6	60.1	22
Juni 9	54.04	35	24.0	29	50.36	11	57.9	26
19	[13]54.39	47	21.1	24	[13]50.47	14	55.3	23
29	54.86	60	18.7	23	50.61	18	53.0	24
Juli 9	55.46	71	16.4	20	50.79	22	50.6	22
19	56.17	82	14.4	17	51.01	24	48.4	21
29	56.99	89	12.7	13	51.25	26	46.3	19
Aug. 8	57.88	97	11.4	10	51.51	27	44.4	16
18	58.85	101	10.4	7	51.78	29	42.8	12
28	59.86	105	9.7	2	52.07	30	41.6	8
Sept. 7	60.91	107	9.5	1	52.37	30	40.8	4
17	61.98	106	9.6	5	52.67	30	40.4	0
27	63.04	105	10.1	9	52.97	29	40.4	5
Okt. 7	64.09	100	11.0	13	53.26	29	40.9	10
17	65.09	94	12.3	17	53.55	26	41.9	13
27	66.03	87	14.0	21	53.81	25	43.2	17
Nov. 6	66.90	77	16.1	23	54.06	22	44.9	20
16	67.67	65	18.4	26	54.28	20	46.9	22
26	68.32	51	21.0	28	54.48	15	49.1	23
Dez. 6	68.83	37	23.8	29	54.63	12	51.4	23
16	69.20	20	26.7	29	54.75	8	53.7	22
26	69.40	4	29.6	28	54.83	2	55.9	22
36	69.44		32.4		54.85		58.1	
Mittl. Ort	56.99		14.4		50.91		64.9	
	205)				207)			

1912	ι Orionis. $2^m.8$.				ε Orionis. $1^m.6$.				ζ Tauri. $3^m.0$.				β Doradus. $3^m.7$.			
	AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	$5^h 31^m$		5° 57′		$5^h 31^m$		1° 15′		$5^h 32^m$		21° 5′		$5^h 32^m$		62° 32′	
Jan. 1	8.58	2	56.2	15	45.72	3	21.2	12	23.95	4	30.7	1	54.47	17	48.5	31
11	8.60	—2	57.7	13	45.75	—2	22.4	11	23.99	—1	30.8	0	54.30	26	51.6	28
21	8.58	6	59.0	11	45.73	6	23.5	9	23.98	5	30.8	1	54.04	32	54.4	24
31	8.52	11	60.1	9	45.67	10	24.4	8	23.93	9	30.9	1	53.72	40	56.8	20
Febr. 10	8.41	13	61.0	7	45.57	13	25.2	6	23.84	13	31.0	0	53.32	44	58.8	14
20	8.28	16	61.7	4	45.44	15	25.8	3	23.71	16	31.0	1	52.88	47	60.2	8
März 1	8.12	16	62.1	2	45.29	16	26.1	2	23.55	17	31.1	—1	52.41	50	61.0	4
11	7.96	18	62.3	0	45.13	17	26.3	0	23.38	18	31.0	0	51.91	49	61.4	—2
21	7.78	16	62.3	3	44.96	17	26.3	2	23.20	16	31.0	1	51.42	49	61.2	8
31	7.62	15	62.0	5	44.79	14	26.1	4	23.04	15	30.9	1	50.93	46	60.4	13
April 10	7.47	13	61.5	7	44.65	12	25.7	6	22.89	13	30.8	2	50.47	42	59.1	17
20	7.34	9	60.8	9	44.53	9	25.1	8	22.76	8	30.6	1	50.05	36	57.4	22
30	7.25	6	59.9	12	44.44	6	24.3	9	22.68	5	30.5	1	49.69	30	55.2	26
Mai 10	7.19	2	58.7	13	44.38	1	23.4	11	22.63	0	30.4	0	49.39	23	52.6	29
20	7.17	—3	57.4	15	44.37	—3	22.3	13	22.63	4	30.4	1	49.16	16	49.7	32
30	7.20	7	55.9	16	44.40	7	21.0	13	22.67	9	30.5	1	49.00	7	46.5	33
Juni 9	7.27	12	54.3	19	44.47	13	19.7	17	22.76	15	30.6	2	48.93	—3	43.2	38
19	7.39	15	52.4	18	44.60	15	18.0	15	22.91	17	30.8	3	48.96	10	39.4	35
29	7.54	19	50.6	19	44.75	19	16.5	16	23.08	22	31.1	4	49.06	18	35.9	34
Juli 9	7.73	21	48.7	17	44.94	22	14.9	16	23.30	24	31.5	4	49.24	26	32.5	32
19	7.94	24	47.0	17	45.16	24	13.3	14	23.54	27	31.9	5	49.50	32	29.3	29
29	8.18	26	45.3	15	45.40	27	11.9	13	23.81	29	32.4	5	49.82	38	26.4	26
Aug. 8	8.44	28	43.8	13	45.67	28	10.6	12	24.10	31	32.9	4	50.20	44	23.8	21
18	8.72	28	42.5	10	45.95	29	9.4	9	24.41	31	33.3	5	50.64	47	21.7	16
28	9.00	30	41.5	7	46.24	29	8.5	7	24.72	33	33.8	4	51.11	49	20.1	10
Sept. 7	9.30	30	40.8	4	46.53	30	7.8	4	25.05	32	34.2	3	51.60	50	19.1	4
17	9.60	29	40.4	0	46.83	29	7.4	1	25.37	32	34.5	2	52.10	52	18.7	—3
27	9.89	29	40.4	3	47.12	29	7.3	—3	25.69	32	34.7	1	52.62	51	19.0	9
Okt. 7	10.18	28	40.7	7	47.41	29	7.6	6	26.01	32	34.8	1	53.13	47	19.9	16
17	10.46	27	41.4	9	47.70	27	8.2	8	26.33	30	34.9	—1	53.60	43	21.5	21
27	10.73	25	42.3	13	47.97	25	9.0	10	26.63	28	34.8	1	54.03	37	23.6	27
Nov. 6	10.98	23	43.6	14	48.22	23	10.0	13	26.91	26	34.7	1	54.40	31	26.3	30
16	11.21	20	45.0	16	48.45	21	11.3	13	27.17	23	34.6	1	54.71	23	29.3	33
26	11.41	17	46.6	17	48.66	17	12.6	15	27.40	20	34.5	1	54.94	14	32.6	36
Dez. 6	11.58	13	48.3	17	48.83	14	14.1	14	27.60	16	34.4	1	55.08	6	36.2	35
16	11.71	9	50.0	17	48.97	9	15.5	14	27.76	11	34.3	1	55.14	—3	39.7	35
26	11.80	4	51.7	16	49.06	5	16.9	13	27.87	7	34.2	0	55.11	13	43.2	33
36	11.84		53.3		49.11		18.2		27.94		34.2		54.98		46.5	
Mittl. Ort	7.68		61.4		44.85		26.9		23.09		22.8		51.59		50.0	
	209)				210)				211)				212)			

1912	α Columbae. $2^m.4$ AR.		Dekl. —		o Aurigae. $5^m.7$ AR.		Dekl. +		ζ Leporis. $3^m.5$ AR.		Dekl. —		κ Orionis. $2^m.1$ AR.		Dekl. —	
	$5^h 36^m$		34° 6′		$5^h 39^m$		49° 47′		$5^h 42^m$		14° 50′		$5^h 43^m$		9° 41′	
Jan. 1	29.00		71.0		6.24		30.0		59.04		70.1		35.89		55.7	
11	28.98	2	73.7	27	6.29	5	31.7	17	59.06	2	72.1	20	35.92	3	57.4	17
21	28.91	7	76.1	24	6.26	3	33.3	16	59.04	2	73.8	17	35.91	1	58.9	15
31	28.79	12	78.2	21	6.17	9	34.7	14	58.97	7	75.3	15	35.85	6	60.3	14
Febr. 10	28.64	15	79.8	16	6.03	14	35.9	12	58.87	10	76.5	12	35.75	10	61.3	10
20	28.44	20	81.1	13	5.83	20	36.9	10	58.73	14	77.5	10	35.62	13	62.1	8
März 1	28.22	22	81.9	8	5.60	23	37.5	6	58.56	17	78.1	6	35.46	16	62.7	6
11	27.99	23	82.2	3	5.34	26	37.8	3	58.38	18	78.4	3	35.29	17	63.0	3
21	27.75	24	82.2	0	5.08	26	37.8	0	58.20	18	78.4	0	35.11	18	63.0	0
31	27.52	23	81.7	5	4.82	26	37.4	4	58.02	18	78.1	3	34.94	17	62.7	3
April 10	27.31	21	80.7	10	4.59	23	36.8	6	57.86	16	77.5	6	34.78	16	62.2	5
20	27.12	19	79.4	13	4.39	20	35.8	10	57.71	15	76.6	9	34.64	14	61.4	8
30	26.97	15	77.6	18	4.24	15	34.7	11	57.60	11	75.4	12	34.54	10	60.4	10
Mai 10	26.85	12	75.5	21	4.15	9	33.3	14	57.53	7	74.0	14	34.47	7	59.2	12
20	26.78	7	73.1	24	4.12	3	31.9	14	57.49	4	72.3	17	34.44	3	57.7	15
30	26.76	2	70.5	26	4.16	— 4	30.4	15	57.50	— 1	70.4	19	34.45	— 1	56.0	17
Juni 9	26.79	— 3	67.7	28	4.26	10	28.8	16	57.55	5	68.4	20	34.51	6	54.3	17
19	[15] 26.87	8	64.5	32	[16] 4.44	18	27.2	16	[17] 57.65	10	66.1	23	[17] 34.61	10	52.3	20
29	26.99	12	61.5	30	4.67	23	25.8	14	57.78	13	63.9	22	34.75	14	50.3	20
Juli 9	27.16	17	58.6	29	4.95	28	24.6	12	57.95	17	61.7	22	34.92	17	48.3	20
19	27.37	21	55.8	28	5.27	32	23.6	10	58.15	20	59.6	21	35.12	20	46.4	19
29	27.61	24	53.3	25	5.64	37	22.7	9	58.38	23	57.6	20	35.35	23	44.6	18
Aug. 8	27.88	27	51.0	23	6.03	39	22.0	7	58.63	25	55.8	18	35.60	25	43.0	16
18	28.17	29	49.1	19	6.45	42	21.4	6	58.90	27	54.3	15	35.87	27	41.6	14
28	28.48	31	47.6	15	6.89	44	21.1	3	59.18	28	53.1	12	36.15	28	40.6	10
Sept. 7	28.80	32	46.6	10	7.35	46	21.0	1	59.48	30	52.3	8	36.45	30	39.8	8
17	29.13	33	46.2	4	7.81	46	21.2	— 2	59.77	29	51.9	4	36.74	29	39.4	4
27	29.45	32	46.3	— 1	8.26	45	21.4	2	60.07	30	51.9	0	37.04	30	39.4	0
Okt. 7	29.77	32	47.0	7	8.72	46	21.9	5	60.37	30	52.3	4	37.33	29	39.8	4
17	30.08	31	48.2	12	9.16	44	22.6	7	60.66	29	53.1	8	37.62	29	40.5	7
27	30.37	29	50.0	18	9.58	42	23.5	9	60.93	27	54.4	13	37.89	27	41.6	11
Nov. 6	30.64	27	52.2	22	9.98	40	24.6	11	61.19	26	56.0	16	38.15	26	43.0	14
16	30.87	23	54.7	25	10.35	37	25.8	12	61.42	23	57.8	18	38.39	24	44.7	17
26	31.07	20	57.5	28	10.67	32	27.2	14	61.62	20	59.9	21	38.60	21	46.5	18
Dez. 6	31.23	16	60.4	29	10.95	28	28.7	15	61.80	18	62.1	22	38.77	17	48.4	19
16	31.34	11	63.4	30	11.17	22	30.4	17	61.94	14	64.3	22	38.91	14	50.4	20
26	31.40	6	66.4	30	11.32	15	32.0	16	62.03	9	66.5	22	39.01	10	52.3	19
36	31.41	1	69.2	28	11.41	9	33.7	17	62.06	3	68.5	20	39.06	5	54.1	18
Mittl. Ort	27.69		74.1		4.92		19.7		58.06		74.8		34.95		60.9	
	215)				216)				219)				220)			

1912	α Orionis. 1ᵐ. AR.	Diff.	Dekl. +	Diff.	δ Aurigae. 3ᵐ.8. AR.	Diff.	Dekl. +	Diff.
	$5^h 50^m$		7° 23′		$5^h 52^m$		54° 16′	
Jan. 1	25.31ˢ		35.8″		18.42ˢ		54.6″	
11	25.36	5	35.0	8	18.49	7	56.5	19
21	25.36	0	34.3	7	18.48	1	58.4	19
31	25.32	4	33.7	6	18.39	9	60.0	16
Febr. 10	25.24	8	33.2	5	18.24	15	61.5	15
20	25.13	11	32.9	3	18.03	21	62.7	12
März 1	24.98	15	32.7	2	17.77	26	63.5	8
11	24.82	16	32.6	1	17.48	29	64.0	5
21	24.65	17	32.6	0	17.19	29	64.1	1
31	24.49	16	32.7	1	16.90	29	63.8	3
April 10	24.34	15	32.9	2	16.63	27	63.2	6
20	24.21	13	33.2	3	16.39	24	62.3	9
30	24.11	10	33.6	4	16.21	18	61.0	13
Mai 10	24.06	5	34.1	5	16.09	12	59.6	14
20	24.03	3	34.7	6	16.03	6	58.0	16
30	24.05	2	35.5	8	16.04	1	56.3	17
Juni 9	24.12	7	36.3	8	16.13	9	54.5	18
19	24.22	10	37.3	10	16.28	15	52.8	17
29	[19]24.38	16	38.4	11	[19]16.52	24	51.0	18
Juli 9	24.56	18	39.4	10	16.80	28	49.5	15
19	24.77	21	40.5	11	17.14	34	48.1	14
29	25.01	24	41.5	10	17.52	38	46.8	13
Aug. 8	25.27	26	42.5	10	17.94	42	45.8	10
18	25.54	27	43.3	8	18.39	45	45.0	8
28	25.83	29	44.0	7	18.86	47	44.4	6
Sept. 7	26.13	30	44.5	5	19.35	49	44.1	3
17	26.43	30	44.8	3	19.85	50	43.9	2
27	26.74	31	44.8	0	20.36	51	44.0	1
Okt. 7	27.04	30	44.7	1	20.86	50	44.4	4
17	27.33	29	44.3	4	21.35	49	45.0	6
27	27.62	29	43.7	6	21.82	47	45.8	8
Nov. 6	27.90	28	42.9	8	22.28	46	46.9	11
16	28.15	25	42.0	9	22.69	41	48.2	13
26	28.38	23	41.0	10	23.06	37	49.7	15
Dez. 6	28.58	20	40.0	10	23.38	32	51.4	17
16	28.74	16	39.0	10	23.64	26	53.2	18
26	28.86	12	38.1	9	23.82	18	55.1	19
36	28.93	7	37.2	9	23.93	11	57.1	20
Mittl. Ort	24.43		29.2		16.86		44.6	
	224)				225)			

1912	β Aurigae. 1ᵐ.9. AR.	Diff.	Dekl. +	Diff.	ϑ Aurigae. 2ᵐ.7. AR.	Diff.	Dekl. +	Diff.
	$5^h 53^m$		44° 56′		$5^h 53^m$		37° 12′	
Jan. 1	5.66ˢ		31.3″		44.31ˢ		35.1″	
11	5.73	7	32.8	15	44.37	6	36.1	10
21	5.73	0	34.2	14	44.39	2	37.1	10
31	5.68	5	35.4	12	44.34	5	38.0	9
Febr. 10	5.56	12	36.5	11	44.24	10	38.8	8
20	5.40	16	37.4	9	44.10	14	39.4	6
März 1	5.20	20	38.1	7	43.93	17	39.9	5
11	4.97	23	38.5	4	43.73	20	40.2	3
21	4.73	24	38.6	1	43.52	21	40.2	0
31	4.50	23	38.4	2	43.32	20	40.1	1
April 10	4.28	22	37.9	5	43.13	19	39.8	3
20	4.10	18	37.2	7	42.98	15	39.3	5
30	3.96	14	36.3	9	42.85	13	38.6	7
Mai 10	3.87	9	35.2	11	42.78	7	37.9	7
20	3.83	4	34.0	12	42.75	3	37.0	9
30	3.85	2	32.8	12	42.77	2	36.2	8
Juni 9	3.93	8	31.5	13	42.85	8	35.3	9
19	4.06	13	30.3	12	42.98	13	34.5	8
29	[19]4.27	21	29.0	13	[19]43.17	19	33.7	8
Juli 9	4.52	25	27.9	11	43.39	22	33.1	6
19	4.81	29	27.0	9	43.65	26	32.5	6
29	5.13	32	26.2	8	43.95	30	32.1	4
Aug. 8	5.49	36	25.5	7	44.27	32	31.7	4
18	5.87	38	25.0	5	44.61	34	31.5	2
28	6.26	39	24.7	3	44.97	36	31.3	2
Sept. 7	6.67	41	24.4	3	45.34	37	31.2	1
17	7.10	43	24.4	0	45.71	37	31.3	1
27	7.52	42	24.5	1	46.09	38	31.4	1
Okt. 7	7.94	42	24.7	2	46.47	38	31.5	1
17	8.35	41	25.1	4	46.85	38	31.8	3
27	8.75	40	25.7	6	47.21	36	32.1	3
Nov. 6	9.14	39	26.5	8	47.55	34	32.5	4
16	9.49	35	27.4	9	47.87	32	33.0	5
26	9.81	32	28.4	10	48.16	29	33.7	7
Dez. 6	10.08	27	29.5	11	48.41	25	34.4	7
16	10.30	22	30.8	13	48.62	21	35.2	8
26	10.47	17	32.2	14	48.77	15	36.1	9
36	10.57	10	33.5	13	48.88	11	37.0	9
Mittl. Ort	4.43		22.1		43.23		26.4	
	227)				228)			

1912	η Columbae. $3^m.9$. AR.		Dekl. −		ν Orionis. $4^m.4$. AR.		Dekl. +		22 H. Camelop. $4^m.6$. AR.		Dekl. +		η Geminor. $3^m.3$. AR.		Dekl. +	
	$5^h 56^m$		42° 48′		$6^h 2^m$		14° 46′		$6^h 9^m$		69° 21′		$6^h 9^m$		22° 31′	
Jan. 1	28.75	2	67.0	31	33.75	7	53.9	4	12.04	10	18.1	26	34.90	9	66.7	1
11	28.73	8	70.1	27	33.82	2	53.5	4	12.14	4	20.7	26	34.99	2	66.8	2
21	28.65	13	72.8	25	33.84	3	53.1	2	12.10	15	23.3	24	35.01	2	67.0	2
31	28.52	19	75.3	20	33.81	8	52.9	2	11.95	27	25.7	21	34.99	7	67.2	1
Febr. 10	28.33	22	77.3	16	33.73	11	52.7	0	11.68	36	27.8	17	34.92	11	67.3	2
20	28.11	25	78.9	11	33.62	14	52.7	1	11.32	44	29.5	13	34.81	14	67.5	2
März 1	27.86	27	80.0	7	33.48	16	52.6	0	10.88	50	30.8	9	34.67	17	67.7	2
11	27.59	29	80.7	1	33.32	17	52.6	1	10.38	52	31.7	3	34.50	17	67.9	1
21	27.30	28	80.8	4	33.15	16	52.7	0	9.86	52	32.0	1	34.33	18	68.0	0
31	27.02	26	80.4	8	32.99	16	52.7	1	9.34	49	31.9	6	34.15	16	68.0	0
April 10	26.76	24	79.6	13	32.83	13	52.8	1	8.85	45	31.3	11	33.99	14	68.0	0
20	26.52	20	78.3	17	32.70	10	52.9	2	8.40	38	30.2	15	33.85	11	68.0	1
30	26.32	17	76.6	21	32.60	7	53.1	2	8.02	28	28.7	18	33.74	8	67.9	2
Mai 10	26.15	11	74.5	24	32.53	3	53.3	2	7.74	18	26.9	21	33.66	3	67.7	1
20	26.04	7	72.1	27	32.50	2	53.5	4	7.56	7	24.8	23	33.63	1	67.6	0
30	25.97	2	69.4	30	32.52	6	53.9	4	7.49	3	22.5	24	33.64	5	67.6	1
Juni 9	25.95	4	66.4	31	32.58	10	54.3	5	7.52	15	20.1	25	33.69	10	67.5	1
19	25.99	9	63.3	34	32.68	16	54.8	6	7.67	29	17.6	26	33.79	16	67.6	0
29	[20] 26.08	14	59.9	31	[21] 32.84	18	55.4	6	[23] 7.96	37	15.0	24	[22] 33.95	18	67.6	1
Juli 9	26.22	20	56.8	31	33.02	21	56.0	6	8.33	46	12.6	21	34.13	21	67.7	2
19	26.42	22	53.7	28	33.23	24	56.6	6	8.79	55	10.5	20	34.34	25	67.9	1
29	26.64	27	50.9	25	33.47	26	57.2	6	9.34	61	8.5	17	34.59	26	68.0	2
Aug. 8	26.91	30	48.4	21	33.73	28	57.8	5	9.95	68	6.8	15	34.85	29	68.2	2
18	27.21	32	46.3	17	34.01	30	58.3	4	10.63	72	5.3	12	35.14	31	68.4	2
28	27.53	34	44.6	12	34.31	30	58.7	3	11.35	76	4.1	8	35.45	31	68.6	0
Sept. 7	27.87	35	43.4	6	34.61	31	59.0	1	12.11	79	3.3	5	35.76	33	68.6	0
17	28.22	36	42.8	0	34.92	31	59.1	0	12.90	80	2.8	1	36.09	33	68.6	0
27	28.58	35	42.8	6	35.23	32	59.1	1	13.70	81	2.7	2	36.42	33	68.6	1
Okt. 7	28.93	35	43.4	12	35.55	31	59.0	3	14.51	79	2.9	6	36.75	33	68.5	2
17	29.28	32	44.6	18	35.86	30	58.7	5	15.30	77	3.5	9	37.08	32	68.3	3
27	29.60	30	46.4	22	36.16	29	58.2	5	16.07	72	4.4	13	37.40	31	68.0	3
Nov. 6	29.90	27	48.6	27	36.45	27	57.7	5	16.79	67	5.7	17	37.71	29	67.7	3
16	30.17	23	51.3	30	36.72	24	57.2	7	17.46	59	7.4	20	38.00	26	67.4	2
26	30.40	18	54.3	32	36.96	22	56.5	6	18.05	52	9.4	22	38.26	24	67.2	2
Dez. 6	30.58	12	57.5	33	37.18	18	55.9	6	18.57	41	11.6	24	38.50	20	67.0	2
16	30.70	7	60.8	33	37.36	14	55.3	6	18.98	29	14.0	26	38.70	15	66.8	1
26	30.77	1	64.1	32	37.50	9	54.7	4	19.27	16	16.6	26	38.85	11	66.7	0
36	30.78		67.3		37.59		54.3		19.43		19.2		38.96		66.7	
Mittl. Ort	27.18		71.1		32.86		46.8		9.10		8.5		33.95		59.4	
	229)				232)				234)				236)			

1912	ξ Canis maj. $2^m.9$				μ Geminorum. $2^m.9$				ψ^1 Aurigae. $5^m.1$				β Canis maj. $2^m.0$			
	AR.	Δ	Dekl. −	Δ	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. −	Δ
	$6^h\,16^m$		$30°\,1'$		$6^h\,17^m$		$22°\,33'$		$6^h\,18^m$		$49°\,20'$		$6^h\,18^m$		$17°\,54'$	
Jan. 1	$57^s.28$	3	$19''.7$	27	$39^s.20$	8	$41''.8$	1	$8^s.79$	11	$10''.2$	16	$50^s.48$	5	$35''.8$	23
11	57.31	2	22.4	26	39.28	4	41.9	1	8.90	3	11.8	17	50.53	0	38.1	21
21	57.29	7	25.0	22	39.32	2	42.0	1	8.93	3	13.5	15	50.53	4	40.2	18
31	57.22	12	27.2	20	39.30	6	42.1	2	8.90	11	15.0	15	50.49	9	42.0	15
Febr. 10	57.10	15	29.2	15	39.24	10	42.3	3	8.79	16	16.5	12	50.40	12	43.5	13
20	56.95	19	30.7	12	39.14	14	42.6	2	8.63	20	17.7	9	50.28	16	44.8	9
März 1	56.76	21	31.9	7	39.00	16	42.8	2	8.43	24	18.6	7	50.12	17	45.7	6
11	56.55	22	32.6	3	38.84	17	43.0	1	8.19	26	19.3	4	49.95	19	46.3	2
21	56.33	22	32.9	1	38.67	18	43.1	0	7.93	26	19.7	0	49.76	19	46.5	1
31	56.11	21	32.8	5	38.49	16	43.1	0	7.67	25	19.7	3	49.57	18	46.4	4
April 10	55.90	19	32.3	9	38.33	15	43.1	0	7.42	21	19.4	6	49.39	16	46.0	8
20	55.71	17	31.4	14	38.18	12	43.1	1	7.21	18	18.8	9	49.23	14	45.2	11
30	55.54	13	30.0	16	38.06	7	43.0	0	7.03	13	17.9	11	49.09	10	44.1	13
Mai 10	55.41	9	28.4	20	37.99	4	43.0	1	6.90	8	16.8	13	48.99	7	42.8	16
20	55.32	5	26.4	22	37.95	0	42.9	1	6.82	1	15.5	14	48.92	3	41.2	18
30	55.27	1	24.2	25	37.95	5	42.8	1	6.81	4	14.1	15	48.89	1	39.4	20
Juni 9	55.26	4	21.7	26	38.00	9	42.7	0	6.85	11	12.6	15	48.90	6	37.4	21
19	55.30	9	19.1	30	38.09	14	42.7	1	6.96	18	11.1	17	48.96	10	35.3	25
29	[25] 55.39	13	16.1	27	[25] 38.23	18	42.8	0	[25] 7.14	23	9.4	14	[25] 49.06	14	32.8	22
Juli 9	55.52	16	13.4	27	38.41	20	42.8	1	7.37	28	8.0	13	49.20	17	30.6	22
19	55.68	20	10.7	25	38.61	24	42.9	2	7.65	31	6.7	13	49.37	19	28.4	21
29	55.88	24	8.2	23	38.85	26	43.1	1	7.96	36	5.4	10	49.56	23	26.3	19
Aug. 8	56.12	25	5.9	19	39.11	29	43.2	1	8.32	39	4.4	10	49.79	25	24.4	16
18	56.37	28	4.0	16	39.40	30	43.3	1	8.71	41	3.4	8	50.04	26	22.8	13
28	56.65	30	2.4	12	39.70	31	43.4	0	9.12	43	2.6	6	50.30	28	21.5	9
Sept. 7	56.95	31	1.2	6	40.01	32	43.4	1	9.55	45	2.0	4	50.58	30	20.6	5
17	57.26	32	0.6	2	40.33	33	43.3	1	10.00	46	1.6	2	50.88	30	20.1	1
27	57.58	32	0.4	4	40.66	33	43.2	2	10.46	46	1.4	0	51.18	30	20.0	3
Okt. 7	57.90	31	0.8	10	40.99	34	43.0	2	10.92	45	1.4	1	51.48	30	20.3	9
17	58.21	31	1.8	15	41.33	32	42.8	3	11.37	45	1.5	4	51.78	30	21.2	12
27	58.52	29	3.3	17	41.65	31	42.5	4	11.82	43	1.9	6	52.08	28	22.4	17
Nov. 6	58.81	27	5.0	25	41.96	30	42.1	3	12.25	40	2.5	8	52.36	26	24.1	19
16	59.08	23	7.5	26	42.26	28	41.8	3	12.65	37	3.3	10	52.62	23	26.0	22
26	59.31	21	10.1	29	42.54	24	41.5	3	13.02	33	4.3	12	52.85	21	28.2	24
Dez. 6	59.52	16	13.0	29	42.78	21	41.2	2	13.35	27	5.5	14	53.06	17	30.6	25
16	59.68	11	15.9	29	42.99	16	41.0	1	13.62	21	6.9	16	53.23	13	33.1	24
26	59.79	5	18.8	29	43.15	12	40.9	1	13.83	15	8.5	15	53.36	7	35.5	24
36	59.84		20.7		43.27		40.8		13.98		10.0		53.43		37.9	
Mittl. Ort	56.06		25.3		38.23		34.6		7.33		2.0		49.44		41.8	
	240)				241)				242)				243)			

1912	8 Monocerot. $4^m.5$				α Argus. 1^m.				10 Monocerot. $5^m.0$				8 Lyncis. $6^m.3$			
	AR.	Δ	Dekl. +	Δ	AR.	Δ	Dekl. —	Δ	AR.	Δ	Dekl. —	Δ	AR.	Δ	Dekl. +	Δ
	$6^h\ 19^m$		$4°\ 38'$		$6^h\ 21^m$		$52°\ 38'$		$6^h\ 23^m$		$4°\ 42'$		$6^h\ 29^m$		$61°\ 33'$	
Jan. 1	7.22	8	24.2	10	61.82	2	44.3	33	37.78	7	19.3	16	41.24	14	42.8	23
11	7.30	2	23.2	9	61.80	9	47.6	32	37.85	2	20.9	14	41.38	4	45.1	22
21	7.32	2	22.3	8	61.71	16	50.8	29	37.87	2	22.3	12	41.42	6	47.3	22
31	7.30	6	21.5	6	61.55	22	53.7	24	37.85	6	23.5	11	41.36	14	49.5	19
Febr. 10	7.24	10	20.9	5	61.33	27	56.1	20	37.79	11	24.6	8	41.22	22	51.4	17
20	7.14	13	20.4	3	61.06	31	58.1	16	37.68	13	25.4	6	41.00	30	53.1	14
März 1	7.01	15	20.1	2	60.75	34	59.7	10	37.55	16	26.0	3	40.70	34	54.5	10
11	6.86	17	19.9	0	60.41	36	60.7	5	37.39	17	26.3	2	40.36	36	55.5	5
21	6.69	17	19.9	1	60.05	36	61.2	0	37.22	17	26.5	1	40.00	37	56.0	1
31	6.52	15	20.0	2	59.69	34	61.2	6	37.05	16	26.4	3	39.63	36	56.1	3
April 10	6.37	14	20.2	4	59.35	33	60.6	10	36.89	15	26.1	5	39.27	33	55.8	7
20	6.23	12	20.6	4	59.02	29	59.6	15	36.74	12	25.6	7	38.94	28	55.1	11
30	6.11	8	21.0	6	58.73	25	58.1	20	36.62	9	24.9	9	38.66	22	54.0	15
Mai 10	6.03	4	21.6	7	58.48	20	56.1	23	36.53	5	24.0	11	38.44	15	52.5	17
20	5.99	0	22.3	8	58.28	15	53.8	27	36.48	2	22.9	13	38.29	7	50.8	19
30	5.99	3	23.1	10	58.13	9	51.1	29	36.46	3	21.6	14	38.22	2	48.9	20
Juni 9	6.02	8	24.1	10	58.04	2	48.2	31	36.49	6	20.2	14	38.24	9	46.9	22
19	6.10	13	25.1	11	58.02	4	45.1	36	36.55	11	18.8	18	38.33	20	44.7	23
29	[25] 6.23	15	26.2	12	[26] 58.06	10	41.5	33	[27] 36.66	14	17.0	16	[28] 38.53	26	42.4	21
Juli 9	6.38	18	27.4	11	58.16	16	38.2	32	36.80	18	15.4	15	38.79	32	40.3	20
19	6.56	21	28.5	10	58.32	20	35.0	31	36.98	20	13.9	15	39.11	39	38.3	19
29	6.77	24	29.5	10	58.52	27	31.9	28	37.18	22	12.4	14	39.50	45	36.4	17
Aug. 8	7.01	25	30.5	8	58.79	31	29.1	24	37.40	25	11.0	12	39.95	49	34.7	15
18	7.26	28	31.3	7	59.10	34	26.7	20	37.65	26	9.8	9	40.44	53	33.2	12
28	7.54	28	32.0	4	59.44	37	24.7	14	37.91	28	8.9	6	40.97	56	32.0	10
Sept. 7	7.82	30	32.4	2	59.81	40	23.3	9	38.19	29	8.3	4	41.53	59	31.0	8
17	8.12	30	32.6	0	60.21	41	22.4	3	38.48	30	7.9	0	42.12	60	30.2	4
27	8.42	30	32.6	3	60.62	41	22.1	4	38.78	30	7.9	3	42.72	61	29.8	1
Okt. 7	8.72	31	32.3	5	61.03	41	22.5	11	39.08	29	8.2	7	43.33	61	29.7	1
17	9.03	29	31.8	8	61.44	39	23.6	16	39.37	30	8.9	10	43.94	60	29.8	5
27	9.32	29	31.0	10	61.83	37	25.2	22	39.67	28	9.9	13	44.54	57	30.3	8
Nov. 6	9.61	27	30.0	11	62.20	32	27.4	27	39.95	27	11.2	15	45.11	55	31.1	11
16	9.88	25	28.9	12	62.52	28	30.1	31	40.22	24	12.7	17	45.66	49	32.2	14
26	10.13	22	27.7	13	62.80	22	33.2	33	40.46	22	14.4	18	46.15	44	33.6	17
Dez. 6	10.35	19	26.4	13	63.02	16	36.5	36	40.68	18	16.2	18	46.59	36	35.3	19
16	10.54	14	25.1	12	63.18	9	40.1	35	40.86	14	18.0	17	46.95	28	37.2	21
26	10.68	10	23.9	11	63.27	1	43.6	30	41.00	9	19.7	17	47.23	19	39.3	23
36	10.78		22.8		63.28		46.6		41.09		21.4		47.42		41.6	
Mittl. Ort	6.31		17.7		59.84		50.2		36.85		25.6		39.06		34.9	
	244)				245)				246)				247)			

1912	23 H. Camelop. 5^m.6. AR.		Dekl. +		ξ² Canis maj. 4^m.6. AR.		Dekl. —		51 Aurigae. 6^m.1 AR.		Dekl. +		γ Geminorum. 2^m.0. AR.		Dekl. +	
	6^h 31^m		79° 39′		6^h 31^m		22° 53′		6^h 32^m		39° 28′		6^h 32^m		16° 28′	
Jan. 1	20.52	21	51.2	30	23.16	5	33.8	26	34.96	12	16.6	11	38.67	10	37.3	4
11	20.73	4	54.2	30	23.21	1	36.4	23	35.08	5	17.7	11	38.77	5	36.9	2
21	20.69	29	57.2	28	23.22	4	38.7	21	35.13	0	18.8	11	38.82	1	36.7	2
31	20.40	51	60.0	25	23.18	8	40.8	18	35.13	6	19.9	11	38.81	5	36.5	1
Febr. 10	19.89	71	62.5	22	23.10	13	42.6	15	35.07	12	21.0	9	38.76	8	36.4	0
20	19.18	87	64.7	17	22.97	16	44.1	11	34.95	16	21.9	8	38.68	13	36.4	1
März 1	18.31	99	66.4	12	22.81	18	45.2	7	34.79	19	22.7	6	38.55	15	36.5	1
11	17.32	107	67.6	7	22.63	20	45.9	4	34.60	21	23.3	4	38.40	17	36.6	1
21	16.25	108	68.3	1	22.43	20	46.3	0	34.39	21	23.7	1	38.23	17	36.7	1
31	15.17	105	68.4	5	22.23	19	46.3	4	34.18	21	23.8	1	38.06	16	36.8	1
April 10	14.12	98	67.9	10	22.04	18	45.9	7	33.97	18	23.7	3	37.90	14	36.9	1
20	13.14	87	66.9	15	21.86	15	45.2	11	33.79	15	23.4	5	37.76	12	37.0	2
30	12.27	71	65.4	19	21.71	12	44.1	13	33.64	11	22.9	7	37.64	9	37.2	1
Mai 10	11.56	54	63.5	23	21.59	9	42.8	17	33.53	7	22.2	8	37.55	5	37.3	2
20	11.02	34	61.2	25	21.50	4	41.1	19	33.46	2	21.4	9	37.50	1	37.5	2
30	10.68	13	58.7	27	21.46	1	39.2	21	33.44	3	20.5	10	37.49	3	37.7	3
Juni 9	10.55	8	56.0	28	21.45	4	37.1	23	33.47	9	19.5	10	37.52	8	38.0	3
19	10.63	34	53.2	33	21.49	8	34.8	26	33.56	13	18.5	10	37.60	11	38.3	4
29	10.97	52	49.9	28	21.57	12	32.2	25	33.69	20	17.5	10	37.71	16	38.7	4
Juli 9	11.49	71	47.1	28	21.69	15	29.7	23	33.89	22	16.5	9	37.87	19	39.1	4
19	12.20	88	44.3	25	21.84	19	27.4	23	34.11	27	15.6	9	38.06	21	39.5	3
29	13.08	104	41.8	23	22.03	21	25.1	21	34.38	29	14.7	8	38.27	24	39.8	4
Aug. 8	14.12	118	39.5	20	22.24	25	23.0	18	34.67	32	13.9	7	38.51	27	40.2	3
18	15.30	129	37.5	17	22.49	26	21.2	15	34.99	35	13.2	6	38.78	27	40.5	1
28	16.59	139	35.8	13	22.75	28	19.7	10	35.34	36	12.6	5	39.05	30	40.6	1
Sept. 7	17.98	147	34.5	9	23.03	29	18.7	7	35.70	38	12.1	5	39.35	30	40.7	0
17	19.45	151	33.6	6	23.32	31	18.0	1	36.08	39	11.6	4	39.65	32	40.7	2
27	20.96	153	33.0	1	23.63	31	17.9	4	36.47	39	11.2	2	39.97	32	40.5	3
Okt. 7	22.49	152	32.9	3	23.94	30	18.3	8	36.86	40	11.0	2	40.29	32	40.2	5
17	24.01	148	33.2	8	24.24	30	19.1	13	37.26	39	10.8	0	40.61	32	39.7	5
27	25.49	141	34.0	13	24.54	30	20.4	17	37.65	38	10.8	1	40.93	31	39.2	7
Nov. 6	26.90	130	35.3	16	24.84	27	22.1	21	38.03	36	10.9	3	41.24	29	38.5	7
16	28.20	118	36.9	21	25.11	25	24.2	23	38.39	34	11.2	4	41.53	28	37.8	7
26	29.38	101	39.0	24	25.36	21	26.5	27	38.73	30	11.6	6	41.81	25	37.1	7
Dez. 6	30.39	80	41.4	26	25.57	18	29.2	27	39.03	25	12.2	7	42.06	21	36.4	6
16	31.19	58	44.0	29	25.75	14	31.9	27	39.28	21	12.9	8	42.27	17	35.8	6
26	31.77	35	46.9	29	25.89	8	34.6	26	39.49	15	13.7	10	42.44	13	35.2	4
36	32.12		49.8		25.97		37.2		39.64		14.7		42.57		34.8	
Mittl. Ort	14.02		42.9		22.07		40.2		33.73		9.5		37.72		30.6	
	248)				249)				250)				251)			

1912	ν Argus. 3ᵐ.1. AR.		Dekl. −		S Monocerot. (4ᵐ.4). AR.		Dekl. +		ε Geminorum. 3ᵐ.1. AR.		Dekl. +		ξ Geminorum. 3ᵐ.4. AR.		Dekl. +	
	$6^h 35^m$		43° 6′		$6^h 36^m$		9° 58′		$6^h 38^m$		25° 13′		$6^h 40^m$		12° 59′	
Jan. 1	$5^s.62$	3	59″.6	33	$8^s.86$	10	46″.9	7	$32^s.16$	11	15″.4	1	$21^s.99$	10	34″.9	6
11	5.65	3	62.9	30	8.96	5	46.2	7	32.27	6	15.5	3	22.09	5	34.3	5
21	5.62	10	65.9	28	9.01	1	45.5	5	32.33	0	15.8	3	22.14	1	33.8	4
31	5.52	14	68.7	25	9.00	5	45.0	4	32.33	4	16.1	4	22.15	5	33.4	2
Febr. 10	5.38	20	71.2	20	8.95	9	44.6	3	32.29	9	16.5	4	22.10	8	33.2	2
20	5.18	23	73.2	16	8.86	12	44.3	2	32.20	13	16.9	4	22.02	12	33.0	0
März 1	4.95	26	74.8	10	8.74	14	44.1	0	32.07	16	17.3	3	21.90	15	33.0	0
11	4.69	28	75.8	6	8.60	16	44.1	0	31.91	17	17.6	3	21.75	16	33.0	1
21	4.41	28	76.4	2	8.44	17	44.1	1	31.74	18	17.9	1	21.59	17	33.1	1
31	4.13	27	76.6	4	8.27	16	44.2	2	31.56	17	18.0	1	21.42	16	33.2	1
April 10	3.86	26	76.2	8	8.11	14	44.4	2	31.39	16	18.1	0	21.26	14	33.3	2
20	3.60	23	75.4	13	7.97	12	44.6	4	31.23	13	18.1	1	21.12	12	33.5	2
30	3.37	19	74.1	17	7.85	9	45.0	3	31.10	9	18.0	2	21.00	10	33.7	3
Mai 10	3.18	16	72.4	21	7.76	5	45.3	5	31.01	6	17.8	2	20.90	5	34.0	4
20	3.02	11	70.3	24	7.71	2	45.8	5	30.95	1	17.6	2	20.85	1	34.4	3
30	2.91	6	67.9	27	7.69	3	46.3	6	30.94	3	17.4	2	20.84	2	34.7	5
Juni 9	2.85	1	65.2	29	7.72	6	46.9	7	30.97	7	17.2	2	20.86	6	35.2	5
19	2.84	4	62.3	30	7.78	11	47.6	7	31.04	11	17.0	2	20.92	10	35.7	5
29	2.88	10	59.3	34	7.89	15	48.3	8	31.15	17	16.8	1	21.02	15	36.2	6
Juli 9	2.98	14	55.9	30	8.04	17	49.1	8	31.32	20	16.7	2	21.17	18	36.8	5
19	3.12	19	52.9	29	8.21	21	49.9	7	31.52	22	16.5	1	21.35	20	37.3	5
29	3.31	23	50.0	27	8.42	23	50.6	6	31.74	25	16.4	1	21.55	23	37.8	5
Aug. 8	3.54	26	47.3	23	8.65	25	51.2	6	31.99	27	16.3	2	21.78	25	38.3	4
18	3.80	29	45.0	20	8.90	27	51.8	4	32.26	29	16.1	2	22.03	27	38.7	3
28	4.09	32	43.0	14	9.17	28	52.2	2	32.55	31	15.9	2	22.30	28	39.0	1
Sept. 7	4.41	34	41.6	9	9.45	30	52.4	1	32.86	33	15.7	2	22.58	30	39.1	0
17	4.75	36	40.7	4	9.75	30	52.5	2	33.19	33	15.5	3	22.88	31	39.1	2
27	5.11	36	40.3	3	10.05	31	52.3	3	33.52	34	15.2	4	23.19	31	38.9	4
Okt. 7	5.47	36	40.6	9	10.36	31	52.0	6	33.86	34	14.8	4	23.50	32	38.5	5
17	5.83	35	41.5	15	10.67	31	51.4	7	34.20	34	14.4	4	23.82	32	38.0	7
27	6.18	33	43.0	20	10.98	30	50.7	8	34.54	34	14.0	4	24.14	30	37.3	8
Nov. 6	6.51	30	45.0	25	11.28	29	49.9	10	34.88	31	13.6	3	24.44	30	36.5	9
16	6.81	27	47.5	29	11.57	27	48.9	11	35.19	30	13.3	3	24.74	27	35.6	9
26	7.08	23	50.4	32	11.84	24	47.8	10	35.49	27	13.0	3	25.01	25	34.7	9
Dez. 6	7.31	18	53.6	33	12.08	21	46.8	11	35.76	23	12.7	1	25.26	22	33.8	9
16	7.49	12	56.9	35	12.29	16	45.7	9	35.99	19	12.6	1	25.48	17	32.9	8
26	7.61	6	60.4	33	12.45	13	44.8	9	36.18	13	12.5	1	25.65	13	32.1	7
36	7.67		63.7		12.58		43.9		36.31		12.6		25.78		31.4	
Mittl. Ort	4.10		66.4		7.94		40.3		31.14		8.7		21.06		28.3	
	252)				253)				254)				256)			

1912	α Canis maj.*) 1^{m}.				18 Monocerot. $4^{m}.7$.				ϑ Geminorum. $3^{m}.4$.				α Pictoris. $3^{m}.2$.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	$6^{h}\ 41^{m}$		16° 35′		$6^{h}\ 43^{m}$		2° 30′		$6^{h}\ 46^{m}$		34° 4′		$6^{h}\ 47^{m}$		61° 50′	
Jan. 1	17.10	8	35.2	23	17.30	9	39.4	13	60.58	13	11.9	7	19.94	1	39.8	36
11	17.18	2	37.5	22	17.39	5	38.1	11	60.71	7	12.6	8	19.93	11	43.4	35
21	17.20	3	39.7	19	17.44	0	37.0	9	60.78	1	13.4	8	19.82	20	46.9	31
31	17.17	7	41.6	16	17.44	5	36.1	8	60.79	4	14.2	8	19.62	28	50.0	29
Febr. 10	17.10	11	43.2	13	17.39	8	35.3	6	60.75	10	15.0	8	19.34	35	52.9	24
20	16.99	15	44.5	10	17.31	12	34.7	4	60.65	13	15.8	7	18.99	40	55.3	19
März 1	16.84	17	45.5	7	17.19	14	34.3	3	60.52	17	16.5	6	18.59	44	57.2	14
11	16.67	18	46.2	4	17.05	16	34.0	0	60.35	19	17.1	4	18.15	47	58.6	10
21	16.49	18	46.6	0	16.89	17	34.0	0	60.16	19	17.5	2	17.68	48	59.6	3
31	16.31	19	46.6	3	16.72	16	34.0	2	59.97	19	17.7	1	17.20	48	59.9	1
April 10	16.12	16	46.3	6	16.56	15	34.2	4	59.78	18	17.8	1	16.72	45	59.8	7
20	15.96	15	45.7	9	16.41	12	34.6	5	59.60	15	17.7	3	16.27	43	59.1	12
30	15.81	11	44.8	11	16.29	9	35.1	6	59.45	11	17.4	4	15.84	38	57.9	17
Mai 10	15.70	8	43.7	14	16.20	6	35.7	7	59.34	7	17.0	5	15.46	33	56.2	21
20	15.62	4	42.3	16	16.14	3	36.4	9	59.27	2	16.5	7	15.13	26	54.1	25
30	15.58	0	40.7	19	16.11	2	37.3	10	59.25	1	15.8	7	14.87	19	51.6	28
Juni 9	15.58	4	38.8	19	16.13	5	38.3	10	59.26	7	15.1	7	14.68	13	48.8	30
19	15.62	8	36.9	20	16.18	9	39.3	11	59.33	11	14.4	7	14.55	4	45.8	33
29	15.70	12	34.9	23	16.27	14	40.4	13	59.44	17	13.7	8	14.51	3	42.5	36
Juli 9	[1]15.82	15	32.6	20	[1]16.41	16	41.7	11	[2]59.61	20	12.9	7	[2]14.54	12	38.9	33
19	15.97	19	30.6	20	16.57	19	42.8	11	59.81	24	12.2	6	14.66	19	35.6	32
29	16.16	21	28.6	18	16.76	22	43.9	9	60.05	26	11.6	6	14.85	27	32.4	30
Aug. 8	16.37	23	26.8	15	16.98	23	44.8	9	60.31	29	11.0	6	15.12	31	29.4	27
18	16.60	26	25.3	12	17.21	26	45.7	6	60.60	31	10.4	6	15.43	38	26.7	22
28	16.86	27	24.1	9	17.47	27	46.3	5	60.91	34	9.8	6	15.81	43	24.5	18
Sept. 7	17.13	29	23.2	5	17.74	29	46.8	1	61.25	35	9.2	5	16.24	47	22.7	12
17	17.42	29	22.7	0	18.03	30	46.9	1	61.60	36	8.7	4	16.71	49	21.5	6
27	17.71	30	22.7	4	18.33	30	46.8	3	61.96	36	8.3	4	17.20	51	20.9	1
Okt. 7	18.01	31	23.1	8	18.63	30	46.5	7	62.32	37	7.9	4	17.71	51	21.0	7
17	18.32	30	23.9	13	18.93	31	45.8	8	62.69	38	7.5	3	18.22	49	21.7	14
27	18.62	28	25.2	16	19.24	29	45.0	12	63.07	36	7.2	2	18.71	47	23.1	20
Nov. 6	18.90	28	26.8	20	19.53	29	43.8	12	63.43	35	7.0	1	19.18	42	25.1	26
16	19.18	25	28.8	22	19.82	26	42.6	14	63.78	33	6.9	0	19.60	36	27.7	29
26	19.43	22	31.0	24	20.08	24	41.2	15	64.11	29	6.9	2	19.96	29	30.6	34
Dez. 6	19.65	18	33.4	25	20.32	21	39.7	15	64.40	26	7.1	3	20.25	21	34.0	36
16	19.83	15	35.9	25	20.53	16	38.2	14	64.66	21	7.4	5	20.46	12	37.6	37
26	19.98	10	38.4	24	20.69	12	36.8	13	64.87	17	7.9	6	20.58	3	41.3	37
36	20.08		40.8		20.81		35.5		65.04		8.5		20.61		45.0	
Mittl. Ort	16.32		41.3		16.38		32.8		59.43		5.5		17.35		47.9	
	257)				258)				261)				262)			

*) Ort des Hauptsterns; die jährliche Parallaxe ist bereits angebracht.

1912	15 Lyncis. $4^m.6$. AR.	Diff.	Dekl. +	Diff.	θ Canis maj. $4^m.1$. AR.	Diff.	Dekl. —	Diff.	ε Canis maj. $1^m.5$. AR.	Diff.	Dekl. —	Diff.	ζ Geminor. $(3^m.8)$. AR.	Diff.	Dekl. +	Diff.
	$6^h\ 49^m$		58° 32′		$6^h\ 50^m$		11° 55′		$6^h\ 55^m$		28° 50′		$6^h\ 58^m$		20° 42′	
Jan. 1	41.66	17	27.7	21	7.05	9	33.1	21	11.14	8	58.8	29	54.43	13	6.8	2
11	41.83	8	29.8	21	7.14	4	35.2	20	11.22	2	61.7	27	54.56	8	6.6	0
21	41.91	1	31.9	21	7.18	1	37.2	17	11.24	3	64.4	25	54.64	2	6.6	1
31	41.90	9	34.0	20	7.17	5	38.9	14	11.21	8	66.9	22	54.66	3	6.7	1
Febr. 10	41.81	17	36.0	17	7.12	9	40.3	12	11.13	12	69.1	18	54.63	7	6.8	2
20	41.64	24	37.7	15	7.03	13	41.5	9	11.01	16	70.9	15	54.56	11	7.0	3
März 1	41.40	29	39.2	11	6.90	16	42.4	7	10.85	18	72.4	10	54.45	14	7.3	2
11	41.11	32	40.3	8	6.74	17	43.1	3	10.67	21	73.4	7	54.31	16	7.5	3
21	40.79	33	41.1	3	6.57	18	43.4	1	10.46	21	74.1	2	54.15	17	7.8	2
31	40.46	33	41.4	0	6.39	17	43.5	3	10.25	21	74.3	2	53.98	17	8.0	2
April 10	40.13	30	41.4	5	6.22	16	43.2	4	10.04	20	74.1	5	53.81	15	8.2	1
20	39.83	27	40.9	9	6.06	14	42.8	8	9.84	18	73.6	10	53.66	14	8.3	1
30	39.56	22	40.0	11	5.92	11	42.0	10	9.66	15	72.6	13	53.52	10	8.4	0
Mai 10	39.34	15	38.9	15	5.81	8	41.0	12	9.51	11	71.3	17	53.42	7	8.4	1
20	39.19	9	37.4	17	5.73	4	39.8	14	9.40	8	69.6	19	53.35	3	8.5	0
30	39.10	1	35.7	19	5.69	1	38.4	16	9.32	4	67.7	22	53.32	1	8.5	0
Juni 9	39.09	6	33.8	20	5.68	3	36.8	18	9.28	0	65.5	23	53.33	5	8.5	0
19	39.15	13	31.8	20	5.71	7	35.0	18	9.28	5	63.2	26	53.38	9	8.5	1
29	39.28	23	29.8	22	5.78	12	33.2	21	9.33	9	60.6	28	53.47	14	8.6	0
Juli 9	39.51	27	27.6	20	5.90	15	31.1	18	9.42	13	57.8	25	53.61	17	8.6	1
19	39.78	33	25.6	19	6.05	17	29.3	18	9.55	16	55.3	25	53.78	20	8.7	0
29	40.11	39	23.7	18	6.22	20	27.5	16	9.71	20	52.8	23	53.98	22	8.7	0
Aug. 8	40.50	43	21.9	16	6.42	23	25.9	15	9.91	22	50.5	20	54.20	25	8.7	1
18	40.93	47	20.3	14	6.65	24	24.4	11	10.13	25	48.5	17	54.45	27	8.6	1
28	41.40	50	18.9	12	6.89	27	23.3	8	10.38	28	46.8	13	54.72	29	8.5	3
Sept. 7	41.90	53	17.7	10	7.16	28	22.5	5	10.66	29	45.5	8	55.01	30	8.2	3
17	42.43	55	16.7	7	7.44	29	22.0	1	10.95	31	44.7	4	55.31	32	7.9	4
27	42.98	56	16.0	5	7.73	30	21.9	3	11.26	32	44.3	2	55.63	33	7.5	5
Okt. 7	43.54	56	15.5	1	8.03	30	22.2	7	11.58	32	44.5	8	55.96	33	7.0	5
17	44.10	57	15.4	1	8.33	30	22.9	12	11.90	32	45.3	12	56.29	33	6.5	7
27	44.67	54	15.5	5	8.63	30	24.1	14	12.22	31	46.5	18	56.62	33	5.8	7
Nov. 6	45.21	52	16.0	7	8.93	28	25.5	18	12.53	29	48.3	22	56.95	32	5.1	7
16	45.73	49	16.7	11	9.21	26	27.3	20	12.82	28	50.5	25	57.27	30	4.4	7
26	46.22	43	17.8	14	9.47	24	29.3	22	13.10	23	53.0	28	57.57	28	3.7	6
Dez. 6	46.65	37	19.2	16	9.71	20	31.5	22	13.33	20	55.8	29	57.85	24	3.1	5
16	47.02	30	20.8	19	9.91	16	33.7	23	13.53	16	58.7	30	58.09	20	2.6	4
26	47.32	22	22.7	20	10.07	11	36.0	21	13.69	10	61.7	30	58.29	16	2.2	3
36	47.54		24.7		10.18		38.1		13.79		64.7		58.45		1.9	
Mittl. Ort	39.62		21.3		6.09		40.0		10.00		66.4		53.44		0.7	
	265)				266)				268)				269)			

1912	γ Canis maj. 4ᵐ.0.				δ Canis maj. 1ᵐ.9.				63 Aurigae. 5ᵐ.0.				λ Geminorum. 3ᵐ.6.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	$6^h\ 59^m$		15° 29′		$7^h\ 4^m$		26° 14′		$7^h\ 5^m$		39° 27′		$7^h\ 13^m$		16° 41′	
Jan. 1	47.63	9	62.4	23	49.84	9	62.7	28	37.57	16	59.5	10	3.16	14	65.3	5
11	47.72	5	64.7	21	49.93	4	65.5	27	37.73	9	60.5	10	3.30	9	64.8	3
21	47.77	0	66.8	20	49.97	1	68.2	24	37.82	3	61.5	12	3.39	4	64.5	2
31	47.77	5	68.8	16	49.96	7	70.6	22	37.85	3	62.7	11	3.43	2	64.3	1
Febr. 10	47.72	9	70.4	14	49.89	11	72.8	18	37.82	8	63.8	11	3.41	6	64.2	1
20	47.63	13	71.8	11	49.78	14	74.6	14	37.74	14	64.9	10	3.35	10	64.3	1
März 1	47.50	16	72.9	8	49.64	18	76.0	11	37.60	17	65.9	8	3.25	13	64.4	2
11	47.34	17	73.7	4	49.46	19	77.1	7	37.43	19	66.7	7	3.12	16	64.6	2
21	47.17	18	74.1	2	49.27	20	77.8	3	37.24	21	67.4	4	2.96	16	64.8	2
31	46.99	18	74.3	2	49.07	20	78.1	1	37.03	21	67.8	1	2.80	16	65.0	2
April 10	46.81	17	74.1	5	48.87	20	78.0	5	36.82	19	67.9	0	2.64	15	65.2	2
20	46.64	14	73.6	7	48.67	17	77.5	8	36.63	17	67.9	3	2.49	14	65.4	2
30	46.50	12	72.9	11	48.50	15	76.7	13	36.46	14	67.6	5	2.35	11	65.6	2
Mai 10	46.38	9	71.8	12	48.35	11	75.4	15	36.32	9	67.1	7	2.24	7	65.8	2
20	46.29	6	70.6	16	48.24	8	73.9	18	36.23	5	66.4	8	2.17	4	66.0	2
30	46.23	2	69.0	17	48.16	4	72.1	20	36.18	0	65.6	9	2.13	0	66.2	2
Juni 9	46.21	2	67.3	18	48.12	0	70.1	22	36.18	5	64.7	10	2.13	3	66.4	2
19	46.23	6	65.5	20	48.12	4	67.9	24	36.23	9	63.7	11	2.16	8	66.6	3
29	46.29	11	63.5	22	48.16	8	65.5	27	36.32	16	62.6	11	2.24	11	66.9	2
Juli 9	46.40	13	61.3	19	48.24	12	62.8	24	36.48	19	61.5	11	2.35	16	67.1	3
19	46.53	17	59.4	20	48.36	16	60.4	24	36.67	22	60.4	11	2.51	17	67.4	2
29	46.70	19	57.4	17	48.52	18	58.0	22	36.89	26	59.3	10	2.68	21	67.6	1
Aug. 8	46.89	21	55.7	16	48.70	22	55.8	20	37.15	30	58.3	10	2.89	23	67.7	0
18	47.10	24	54.1	13	48.92	24	53.8	16	37.45	31	57.3	10	3.12	26	67.7	0
28	47.34	27	52.8	9	49.16	27	52.2	13	37.76	34	56.3	8	3.38	27	67.7	2
Sept. 7	47.61	28	51.9	6	49.43	29	50.9	8	38.10	36	55.5	8	3.65	29	67.5	3
17	47.89	29	51.3	1	49.72	30	50.1	3	38.46	38	54.7	8	3.94	30	67.2	4
27	48.18	30	51.2	3	50.02	31	49.8	2	38.84	39	53.9	6	4.24	32	66.8	6
Okt. 7	48.48	30	51.5	7	50.33	31	50.0	7	39.23	40	53.3	5	4.56	32	66.2	7
17	48.78	30	52.2	11	50.64	32	50.7	12	39.63	40	52.8	4	4.88	33	65.5	8
27	49.08	30	53.3	15	50.96	31	51.9	16	40.03	40	52.4	3	5.21	33	64.7	9
Nov. 6	49.38	29	54.8	19	51.27	30	53.5	21	40.43	38	52.1	1	5.54	32	63.8	9
16	49.67	27	56.7	21	51.57	28	55.6	25	40.81	37	52.0	2	5.86	30	62.9	10
26	49.94	24	58.8	23	51.85	24	58.1	27	41.18	33	52.2	3	6.16	28	61.9	9
Dez. 6	50.18	21	61.1	25	52.09	22	60.8	28	41.51	30	52.5	5	6.44	25	61.0	8
16	50.39	17	63.6	24	52.31	16	63.6	30	41.81	24	53.0	7	6.69	21	60.2	7
26	50.56	12	66.0	23	52.47	12	66.6	28	42.05	19	53.7	9	6.90	16	59.5	6
36	50.68		68.3		52.59		69.4		42.24		54.6		7.06		58.9	
Mittl. Ort	46.65		69.6		48.76		70.6		36.29		54.1		2.20		59.5	
	271)				273)				274)				277)			

1912	π Argus. 2ᵐ.5. AR.		Dekl. —		δ Geminorum. 3ᵐ.3 AR.		Dekl. +		19 Lyncis seq. 5ᵐ.5. AR.		Dekl. +		δ Volantis. 4ᵐ.0. AR.		Dekl. —	
	7ʰ 14ᵐ		36° 55′		7ʰ 14ᵐ		22° 8′		7ʰ 15ᵐ		55° 26′		7ʰ 16ᵐ		67° 47′	
Jan. 1	3.30	10	71.5	32	53.14	15	48.3	1	43.42	20	58.2	19	55.87	2	35.4	38
11	3.40	2	74.7	31	53.29	9	48.2	0	43.62	13	60.1	19	55.89	10	39.2	36
21	3.42	2	77.8	29	53.38	4	48.2	1	43.75	4	62.0	20	55.79	20	42.8	35
31	3.40	9	80.7	26	53.42	1	48.3	2	43.79	5	64.0	19	55.59	31	46.3	32
Febr. 10	3.31	13	83.3	22	53.41	6	48.5	3	43.74	12	65.9	19	55.28	41	49.5	28
20	3.18	17	85.5	18	53.35	10	48.8	4	43.62	18	67.8	15	54.87	47	52.3	23
März 1	3.01	21	87.3	14	53.25	14	49.2	3	43.44	24	69.3	13	54.40	54	54.6	20
11	2.80	23	88.7	10	53.11	15	49.5	4	43.20	27	70.6	10	53.86	57	56.6	14
21	2.57	24	89.7	5	52.96	17	49.9	3	42.93	30	71.6	6	53.29	61	58.0	8
31	2.33	24	90.2	1	52.79	17	50.2	2	42.63	30	72.2	3	52.68	60	58.8	4
April 10	2.09	23	90.3	4	52.62	16	50.4	2	42.33	28	72.5	2	52.08	60	59.2	2
20	1.86	21	89.9	8	52.46	14	50.6	1	42.05	26	72.3	5	51.48	57	59.0	7
30	1.65	19	89.1	13	52.32	11	50.7	1	41.79	22	71.8	9	50.91	53	58.3	13
Mai 10	1.46	15	87.8	16	52.21	8	50.8	1	41.57	16	70.9	12	50.38	48	57.0	16
20	1.31	12	86.2	19	52.13	4	50.7	0	41.41	11	69.7	14	49.90	40	55.4	22
30	1.19	8	84.3	23	52.09	1	50.7	1	41.30	4	68.3	17	49.50	33	53.2	25
Juni 9	1.11	3	82.0	25	52.08	4	50.6	0	41.26	2	66.6	18	49.17	25	50.7	28
19	1.08	1	79.5	27	52.12	8	50.6	1	41.28	9	64.8	19	48.92	16	47.9	30
29	1.09	5	76.8	28	52.20	11	50.5	1	41.37	15	62.9	19	48.76	6	44.9	33
Juli 9	1.14	11	74.0	31	52.31	17	50.4	1	41.52	23	61.0	22	48.70	4	41.6	36
19	1.25	14	70.9	27	52.48	18	50.3	2	41.75	27	58.8	19	48.74	13	38.0	32
29	1.39	18	68.2	25	52.66	21	50.1	1	42.02	32	56.9	19	48.87	23	34.8	31
Aug. 8	1.57	22	65.7	24	52.87	24	50.0	3	42.34	37	55.0	17	49.10	32	31.7	29
18	1.79	24	63.3	19	53.11	26	49.7	3	42.71	40	53.3	16	49.42	40	28.8	25
28	2.03	28	61.4	16	53.37	29	49.4	3	43.11	44	51.7	15	49.82	47	26.3	21
Sept. 7	2.31	30	59.8	11	53.66	30	49.1	5	43.55	47	50.2	13	50.29	53	24.2	15
17	2.61	32	58.7	5	53.96	31	48.6	5	44.02	50	48.9	10	50.82	58	22.7	9
27	2.93	34	58.2	0	54.27	33	48.1	6	44.52	51	47.9	8	51.40	61	21.8	3
Okt. 7	3.27	34	58.2	6	54.60	33	47.5	7	45.03	53	47.1	6	52.01	63	21.5	3
17	3.61	35	58.8	11	54.93	34	46.8	8	45.56	52	46.5	3	52.64	61	21.8	11
27	3.96	33	59.9	18	55.27	34	46.0	8	46.08	52	46.2	0	53.25	59	22.9	16
Nov. 6	4.29	32	61.7	22	55.61	33	45.2	7	46.60	51	46.2	4	53.84	54	24.5	23
16	4.61	30	63.9	26	55.94	31	44.5	7	47.11	48	46.6	6	54.38	48	26.8	27
26	4.91	26	66.5	30	56.25	29	43.8	7	47.59	44	47.2	10	54.86	39	29.5	32
Dez. 6	5.17	22	69.5	31	56.54	26	43.1	5	48.03	39	48.2	12	55.25	30	32.7	35
16	5.39	18	72.6	33	56.80	22	42.6	4	48.42	32	49.4	16	55.55	20	36.2	37
26	5.57	12	75.9	33	57.02	18	42.2	3	48.74	25	51.0	17	55.75	8	39.9	38
36	5.69		79.2		57.20		41.9		48.99		52.7		55.83		43.7	
Mittl. Ort	2.05		80.4		52.14		42.7		41.51		53.7		52.73		46.2	

278) 279) 280) 281)

1912	ι Geminorum. $3^m.8$.				Gr. 1308. $5^m.8$.				β Canis min. $2^m.9$.				ρ Geminorum. $4^m.4$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$7^h\ 20^m$		27° 58′		$7^h\ 21^m$		68° 38′		$7^h\ 22^m$		8° 28′		$7^h\ 23^m$		31° 57′	
Jan. 1	16.86	16	30.8	2	47.23	29	52.2	25	23.67	14	8.6	10	28.33	17	42.2	5
11	17.02	11	31.0	4	47.52	16	54.7	26	23.81	9	7.6	8	28.50	11	42.7	6
21	17.13	4	31.4	5	47.68	3	57.3	25	23.90	4	6.8	7	28.61	6	43.3	7
31	17.17	0	31.9	5	47.71	9	59.8	25	23.94	1	6.1	6	28.67	1	44.0	8
Febr. 10	17.17	6	32.4	6	47.62	20	62.3	23	23.93	5	5.5	4	28.66	5	44.8	7
20	17.11	10	33.0	6	47.42	32	64.6	20	23.88	9	5.1	2	28.61	11	45.5	8
März 1	17.01	14	33.6	5	47.10	39	66.6	16	23.79	13	4.9	1	28.50	14	46.3	8
11	16.87	17	34.1	5	46.71	45	68.2	13	23.66	14	4.8	0	28.36	17	47.1	5
21	16.70	17	34.6	4	46.26	48	69.5	7	23.52	16	4.8	1	28.19	18	47.6	5
31	16.53	18	35.0	3	45.78	50	70.2	3	23.36	16	4.9	2	28.01	18	48.1	3
April 10	16.35	17	35.3	1	45.28	48	70.5	3	23.20	15	5.1	3	27.83	18	48.4	2
20	16.18	15	35.4	0	44.80	44	70.2	7	23.05	13	5.4	4	27.65	15	48.6	1
30	16.03	12	35.4	0	44.36	38	69.5	11	22.92	11	5.8	4	27.50	13	48.5	1
Mai 10	15.91	8	35.4	2	43.98	31	68.4	16	22.81	9	6.2	5	27.37	10	48.4	4
20	15.83	5	35.2	3	43.67	23	66.8	19	22.72	4	6.7	5	27.27	5	48.0	4
30	15.78	1	34.9	4	43.44	13	64.9	21	22.68	2	7.2	6	27.22	2	47.6	5
Juni 9	15.77	3	34.5	4	43.31	3	62.8	24	22.66	3	7.8	6	27.20	3	47.1	6
19	15.80	7	34.1	4	43.28	7	60.4	25	22.69	6	8.4	7	27.23	7	46.5	7
29	15.87	12	33.7	4	43.35	17	57.9	25	22.75	10	9.1	7	27.30	12	45.8	7
Juli 9	15.99	17	33.3	5	43.52	29	55.4	28	22.85	14	9.8	7	27.42	17	45.1	7
19	16.16	18	32.8	5	43.81	36	52.6	26	22.99	17	10.5	6	27.59	19	44.4	8
29	16.34	22	32.3	5	44.17	45	50.0	24	23.16	19	11.1	6	27.78	22	43.6	8
Aug. 8	16.56	24	31.8	6	44.62	52	47.6	23	23.35	20	11.7	4	28.00	25	42.8	7
18	16.80	27	31.2	6	45.14	58	45.3	21	23.55	24	12.1	2	28.25	28	42.1	8
28	17.07	29	30.6	6	45.72	65	43.2	18	23.79	25	12.3	1	28.53	30	41.3	8
Sept. 7	17.36	31	30.0	7	46.37	69	41.4	16	24.04	28	12.4	1	28.83	32	40.5	7
17	17.67	33	29.3	7	47.06	74	39.8	13	24.32	29	12.3	3	29.15	34	39.8	8
27	18.00	34	28.6	7	47.80	76	38.5	10	24.61	30	12.0	5	29.49	35	39.0	8
Okt. 7	18.34	35	27.9	7	48.56	78	37.5	6	24.91	31	11.5	7	29.84	37	38.2	7
17	18.69	36	27.2	7	49.34	79	36.9	1	25.22	32	10.8	10	30.21	37	37.5	7
27	19.05	35	26.5	7	50.13	78	36.8	2	25.54	31	9.8	11	30.58	37	36.8	6
Nov. 6	19.40	35	25.8	6	50.91	75	37.0	6	25.85	31	8.7	12	30.95	36	36.2	6
16	19.75	33	25.2	6	51.66	71	37.6	11	26.16	30	7.5	14	31.31	34	35.6	4
26	20.08	31	24.6	4	52.37	64	38.7	14	26.46	27	6.1	13	31.65	33	35.2	2
Dez. 6	20.39	28	24.2	2	53.01	56	40.1	18	26.73	25	4.8	13	31.98	29	35.0	0
16	20.67	23	24.0	1	53.57	46	41.9	21	26.98	21	3.5	12	32.27	24	35.0	2
26	20.90	19	23.9	1	54.03	35	44.0	24	27.19	17	2.3	12	32.51	20	35.2	3
36	21.09		24.0		54.38		46.4		27.36		1.1		32.71		35.5	
Mittl. Ort	15.79		25.7		44.00		48.2		22.76		2.5		27.20		37.4	
	282)				284)				285)				286)			

1912	α Gemin. 1^m.8, 2^m.8. AR.		α Gemin. Dekl. +		25 Monocerot. 5^m.3. AR.		25 Monocerot. Dekl. —		α Canis min.*). 0^m.5. AR.		α Canis min. Dekl. +		24 Lyncis. 5^m.0. AR.		24 Lyncis. Dekl. +	
	7^h 28^m		32° 4′		7^h 32^m		3° 54′		7^h 34^m		5° 27′		7^h 35^m		58° 54′	
Jan. 1	60.24	17	62.0	4	55.10	13	42.9	18	42.61	15	10.1	13	36.24	26	65.3	20
11	60.41	12	62.4	6	55.23	9	44.7	16	42.76	10	8.8	11	36.50	16	67.3	21
21	60.53	6	63.0	7	55.32	4	46.3	15	42.86	5	7.7	9	36.66	8	69.4	21
31	60.59	1	63.7	8	55.36	1	47.8	12	42.91	0	6.8	8	36.74	2	71.5	22
Febr. 10	60.60	5	64.5	8	55.35	5	49.0	10	42.91	5	6.0	6	36.72	11	73.7	20
20	60.55	10	65.3	8	55.30	9	50.0	8	42.86	8	5.4	3	36.61	18	75.7	18
März 1	60.45	14	66.1	7	55.21	13	50.8	5	42.78	12	5.1	3	36.43	25	77.5	16
11	60.31	16	66.8	6	55.08	15	51.3	4	42.66	14	4.8	1	36.18	29	79.1	12
21	60.15	19	67.4	6	54.93	16	51.7	1	42.52	16	4.7	1	35.89	32	80.3	9
31	59.96	18	68.0	3	54.77	16	51.8	1	42.36	16	4.8	1	35.57	33	81.2	4
April 10	59.78	18	68.3	1	54.61	16	51.7	3	42.20	15	4.9	3	35.24	32	81.6	0
20	59.60	16	68.4	0	54.45	14	51.4	5	42.05	14	5.2	3	34.92	30	81.6	4
30	59.44	13	68.4	1	54.31	12	50.9	6	41.91	11	5.5	5	34.62	26	81.2	7
Mai 10	59.31	10	68.3	3	54.19	10	50.3	9	41.80	9	6.0	5	34.36	21	80.5	12
20	59.21	6	68.0	4	54.09	6	49.4	9	41.71	6	6.5	6	34.15	15	79.3	14
30	59.15	2	67.6	6	54.03	3	48.5	11	41.65	2	7.1	7	34.00	8	77.9	17
Juni 9	59.13	2	67.0	6	54.00	1	47.4	12	41.63	1	7.8	7	33.92	2	76.2	19
19	59.15	6	66.4	6	54.01	4	46.2	13	41.64	4	8.5	8	33.90	5	74.3	21
29	59.21	11	65.8	8	54.05	8	44.9	14	41.68	8	9.3	8	33.95	12	72.2	22
Juli 9	59.32	16	65.0	8	54.13	12	43.5	14	41.76	13	10.1	8	34.07	21	70.0	24
19	59.48	18	64.2	7	54.25	14	42.1	13	41.89	14	10.9	8	34.28	25	67.6	22
29	59.66	21	63.5	8	54.39	17	40.8	11	42.03	17	11.7	6	34.53	31	65.4	21
Aug. 8	59.87	25	62.7	9	54.56	20	39.7	10	42.20	20	12.3	5	34.84	36	63.3	21
18	60.12	27	61.8	8	54.76	22	38.7	8	42.40	23	12.8	3	35.20	42	61.2	20
28	60.39	30	61.0	8	54.98	24	37.9	6	42.63	24	13.1	2	35.62	45	59.2	17
Sept. 7	60.69	31	60.2	9	55.22	26	37.3	2	42.87	27	13.3	1	36.07	49	57.5	16
17	61.00	34	59.3	8	55.48	29	37.1	0	43.14	28	13.2	3	36.56	52	55.9	14
27	61.34	35	58.5	8	55.77	29	37.1	4	43.42	29	12.9	6	37.08	55	54.5	11
Okt. 7	61.69	36	57.7	9	56.06	31	37.5	7	43.71	31	12.3	8	37.63	57	53.4	9
17	62.05	37	56.8	7	56.37	31	38.2	11	44.02	31	11.5	10	38.20	57	52.5	5
27	62.42	37	56.1	7	56.68	31	39.3	13	44.33	32	10.5	12	38.77	57	52.0	2
Nov. 6	62.79	37	55.4	5	56.99	31	40.6	16	44.65	31	9.3	14	39.34	56	51.8	2
16	63.16	35	54.9	5	57.30	29	42.2	18	44.96	30	7.9	15	39.90	54	52.0	5
26	63.51	33	54.4	3	57.59	27	44.0	19	45.26	28	6.4	16	40.44	50	52.5	9
Dez. 6	63.84	29	54.1	0	57.86	25	45.9	19	45.54	25	4.8	15	40.94	44	53.4	12
16	64.13	26	54.1	1	58.11	20	47.8	20	45.79	21	3.3	15	41.38	38	54.6	16
26	64.39	20	54.2	3	58.31	16	49.8	19	46.00	17	1.8	14	41.76	30	56.2	18
36	64.59		54.5		58.47		51.7		46.17		0.4		42.06		58.0	
Mittl. Ort	59.11		57.5		54.20		49.9		41.77		4.6		34.08		62.3	
	287)				289)				291)				292)			

*) Die Angaben für α Canis min. beziehen sich hier auf den Ort des sichtbaren Sterns.

1912	κ Geminorum. $3^m.4$. AR.		Dekl. +		β Geminorum. $1^m.1$. AR.		Dekl. +		π Geminorum. $5^m.5$. AR.		Dekl. +		ζ Volantis. $3^m.9$. AR.		Dekl. —	
	$7^h\ 39^m$		24° 36′		$7^h\ 39^m$		28° 14′		$7^h\ 41^m$		33° 37′		$7^h\ 42^m$		72° 23′	
Jan. 1	9.25	17	39.9	1	57.06	18	26.6	1	51.29	19	60.7	5	58.17	7	28.4	37
11	9.42	12	39.8	1	57.24	13	26.7	3	51.48	13	61.2	6	58.24	7	32.1	38
21	9.54	7	39.9	2	57.37	6	27.0	5	51.61	8	61.8	8	58.17	20	35.9	36
31	9.61	1	40.1	4	57.43	1	27.5	6	51.69	1	62.6	9	57.97	33	39.5	34
Febr. 10	9.62	4	40.5	4	57.44	4	28.1	6	51.70	4	63.5	9	57.64	46	42.9	31
20	9.58	8	40.9	5	57.40	8	28.7	7	51.66	9	64.4	9	57.18	55	46.0	28
März 1	9.50	13	41.4	5	57.32	13	29.4	6	51.57	13	65.3	8	56.63	64	48.8	23
11	9.37	15	41.9	5	57.19	15	30.0	6	51.44	16	66.1	8	55.99	70	51.1	18
21	9.22	15	42.4	4	57.04	17	30.6	5	51.28	18	66.9	6	55.29	74	52.9	13
31	9.07	17	42.8	4	56.87	18	31.1	4	51.10	19	67.5	4	54.55	76	54.2	8
April 10	8.90	17	43.2	2	56.69	17	31.5	2	50.91	18	67.9	2	53.79	76	55.0	3
20	8.73	15	43.4	2	56.52	16	31.7	1	50.73	16	68.1	1	53.03	75	55.3	3
30	8.58	12	43.6	1	56.36	13	31.8	0	50.57	15	68.2	1	52.28	70	55.0	8
Mai 10	8.46	9	43.7	0	56.23	10	31.8	1	50.42	10	68.1	3	51.58	66	54.2	13
20	8.37	6	43.7	1	56.13	6	31.7	3	50.32	7	67.8	5	50.92	58	52.9	17
30	8.31	3	43.6	2	56.07	3	31.4	3	50.25	3	67.3	5	50.34	50	51.2	22
Juni 9	8.28	2	43.4	2	56.04	1	31.1	4	50.22	1	66.8	7	49.84	40	49.0	26
19	8.30	5	43.2	3	56.05	5	30.7	4	50.23	5	66.1	8	49.44	30	46.4	28
29	8.35	9	42.9	3	56.10	10	30.3	5	50.28	9	65.3	8	49.14	18	43.6	31
Juli 9	8.44	14	42.6	3	56.20	14	29.8	6	50.37	15	64.5	9	48.96	7	40.5	35
19	8.58	16	42.3	4	56.34	16	29.2	6	50.52	17	63.6	10	48.89	7	37.0	33
29	8.74	19	41.9	4	56.50	20	28.6	7	50.69	21	62.6	9	48.96	18	33.7	31
Aug. 8	8.93	22	41.5	5	56.70	22	27.9	7	50.90	24	61.7	10	49.14	30	30.6	30
18	9.15	25	41.0	6	56.92	26	27.2	7	51.14	26	60.7	10	49.44	42	27.6	27
28	9.40	27	40.4	6	57.18	28	26.5	8	51.40	29	59.7	10	49.86	51	24.9	23
Sept. 7	9.67	29	39.8	7	57.46	30	25.7	8	51.69	32	58.7	10	50.37	60	22.6	18
17	9.96	31	39.1	8	57.76	31	24.9	9	52.01	34	57.7	10	50.97	68	20.8	13
27	10.27	33	38.3	8	58.07	34	24.0	9	52.35	35	56.7	10	51.65	72	19.5	7
Okt. 7	10.60	34	37.5	9	58.41	35	23.1	9	52.70	36	55.7	9	52.37	76	18.8	0
17	10.94	35	36.6	10	58.76	35	22.2	9	53.06	38	54.8	9	53.13	76	18.8	7
27	11.29	35	35.6	9	59.11	36	21.3	8	53.44	38	53.9	8	53.89	74	19.5	13
Nov. 6	11.64	35	34.7	9	59.47	36	20.5	8	53.82	37	53.1	6	54.63	70	20.8	20
16	11.99	33	33.8	8	59.83	34	19.7	7	54.19	36	52.5	5	55.33	62	22.8	24
26	12.32	31	33.0	7	60.17	32	19.0	5	54.55	34	52.0	2	55.95	53	25.2	30
Dez. 6	12.63	29	32.3	5	60.49	29	18.5	4	54.89	31	51.8	1	56.48	42	28.2	34
16	12.92	24	31.8	4	60.78	26	18.1	1	55.20	27	51.7	1	56.90	29	31.6	36
26	13.16	20	31.4	2	61.04	21	18.0	0	55.47	22	51.8	3	57.19	15	35.2	38
36	13.36		31.2		61.25		18.0		55.69		52.1		57.34		39.0	
Mittl. Ort	8.23		35.3		55.99		22.3		50.13		56.9		54.44		41.5	
	294)				295)				296)				297)			

1912	Gr. 1374. 5ᵐ.5. AR.	Δ	Dekl. +	Δ	χ Argus. 3ᵐ.5. AR.	Δ	Dekl. −	Δ	γ Geminorum. 5ᵐ.1. AR.	Δ	Dekl. +	Δ	ζ Argus. 2ᵐ.2. AR.	Δ	Dekl. −	Δ
	7ʰ 49ᵐ		74° 9′		7ʰ 54ᵐ		52° 44′		7ʰ 58ᵐ		28° 2′		8ʰ 0ᵐ		39° 44′	
	s		″		s		″		s		″		s		″	
Jan. 1	45.51	45	17.7	25	34.10	13	32.5	37	8.02	20	34.0	1	30.57	14	65.7	34
11	45.96	28	20.2	27	34.23	6	36.2	36	8.22	14	34.1	2	30.71	9	69.1	34
21	46.24	11	22.9	28	34.29	2	39.8	36	8.36	9	34.3	4	30.80	2	72.5	32
31	46.35	6	25.7	28	34.27	9	43.4	32	8.45	3	34.7	6	30.82	3	75.7	30
Febr. 10	46.29	22	28.5	26	34.18	16	46.6	30	8.48	2	35.3	6	30.79	10	78.7	27
20	46.07	36	31.1	23	34.02	22	49.6	26	8.46	7	35.9	7	30.69	14	81.4	23
März 1	45.71	48	33.4	20	33.80	26	52.2	22	8.39	11	36.6	7	30.55	18	83.7	19
11	45.23	58	35.4	16	33.54	30	54.4	18	8.28	14	37.3	7	30.37	21	85.6	15
21	44.65	63	37.0	11	33.24	32	56.2	12	8.14	16	38.0	6	30.16	23	87.1	11
31	44.02	67	38.1	6	32.92	33	57.4	7	7.98	17	38.6	4	29.93	24	88.2	6
April 10	43.35	67	38.7	1	32.59	34	58.1	3	7.81	17	39.0	4	29.69	24	88.8	2
20	42.68	64	38.8	5	32.25	32	58.4	4	7.64	16	39.4	2	29.45	23	89.0	4
30	42.04	58	38.3	9	31.93	30	58.0	7	7.48	14	39.6	1	29.22	22	88.6	7
Mai 10	41.46	50	37.4	15	31.63	27	57.3	13	7.34	11	39.7	1	29.00	18	87.9	12
20	40.96	40	35.9	18	31.36	24	56.0	17	7.23	7	39.6	1	28.82	16	86.7	16
30	40.56	28	34.1	22	31.12	19	54.3	21	7.16	4	39.5	3	28.66	12	85.1	19
Juni 9	40.28	16	31.9	24	30.93	14	52.2	24	7.12	0	39.2	4	28.54	8	83.2	22
19	40.12	4	29.5	27	30.79	9	49.8	27	7.12	3	38.8	5	28.46	5	81.0	25
29	40.08	10	26.8	28	30.70	5	47.1	29	7.15	8	38.3	5	28.41	1	78.5	26
Juli 9	40.18	24	24.0	32	30.65	2	44.2	31	7.23	10	37.8	6	28.40	4	75.9	27
19	40.42	36	20.8	28	30.67	8	41.1	34	7.33	16	37.2	7	28.44	10	73.2	31
29	40.78	47	18.0	29	30.75	14	37.7	30	7.49	18	36.5	7	28.54	12	70.1	26
Aug. 8	41.25	58	15.1	27	30.89	19	34.7	28	7.67	21	35.8	8	28.66	17	67.5	25
18	41.83	69	12.4	25	31.08	24	31.9	25	7.88	24	35.0	8	28.83	21	65.0	22
28	42.52	77	9.9	23	31.32	29	29.4	22	8.12	26	34.2	9	29.04	24	62.8	19
Sept. 7	43.29	84	7.6	21	31.61	33	27.2	16	8.38	29	33.3	10	29.28	28	60.9	14
17	44.13	92	5.5	17	31.94	36	25.6	12	8.67	31	32.3	10	29.56	31	59.5	9
27	45.05	96	3.8	14	32.30	40	24.4	6	8.98	32	31.3	10	29.87	33	58.6	4
Okt. 7	46.01	100	2.4	9	32.70	42	23.8	2	9.30	35	30.3	11	30.20	35	58.2	2
17	47.01	102	1.5	6	33.12	43	24.0	7	9.65	36	29.2	11	30.55	36	58.4	8
27	48.03	102	0.9	1	33.55	43	24.7	14	10.01	36	28.1	10	30.91	36	59.2	14
Nov. 6	49.05	100	0.8	3	33.98	41	26.1	19	10.37	36	27.1	9	31.27	36	60.6	20
16	50.05	95	1.1	9	34.39	39	28.0	25	10.73	35	26.2	8	31.63	34	62.6	24
26	51.00	89	2.0	12	34.78	35	30.5	30	11.08	34	25.4	7	31.97	31	65.0	28
Dez. 6	51.89	79	3.2	17	35.13	29	33.5	33	11.42	30	24.7	5	32.28	27	67.8	32
16	52.68	66	4.9	21	35.42	24	36.8	36	11.72	27	24.2	3	32.55	23	71.0	33
26	53.34	52	7.0	25	35.66	17	40.4	37	11.99	23	23.9	1	32.78	18	74.3	34
36	53.86		9.5		35.83		44.1		12.22		23.8		32.96		77.7	
Mittl. Ort	40.98		16.0		32.52		45.0		6.96		30.5		29.43		77.2	
	300)				303)				305)				306)			

1912	27 Lyncis. $4^m.6$. AR.	Diff.	Dekl. +	Diff.	ι Navis. $2^m.8$. AR.	Diff.	Dekl. —	Diff.
	$8^h\ 1^m$		51° 45′		$8^h\ 3^m$		24° 2′	
Jan. 1	$52^s.36$	26	41″.8	14	$48^s.65$	15	50′.7	28
11	52.62	19	43.2	17	48.80	11	53.5	28
21	52.81	11	44.9	18	48.91	6	56.3	26
31	52.92	4	46.7	18	48.97	1	58.9	24
Febr. 10	52.96	4	48.5	19	48.98	5	61.3	21
20	52.92	11	50.4	17	48.93	9	63.4	18
März 1	52.81	17	52.1	16	48.84	13	65.2	14
11	52.64	22	53.7	13	48.71	16	66.6	11
21	52.42	24	55.0	11	48.55	17	67.7	7
31	52.18	26	56.1	7	48.38	19	68.4	3
April 10	51.92	26	56.8	3	48.19	18	68.7	0
20	51.66	25	57.1	0	48.01	18	68.7	3
30	51.41	23	57.1	4	47.83	17	68.4	7
Mai 10	51.18	18	56.7	7	47.66	14	67.7	11
20	51.00	13	56.0	10	47.52	11	66.6	13
30	50.87	9	55.0	13	47.41	8	65.3	16
Juni 9	50.78	3	53.7	15	47.33	4	63.7	18
19	50.75	2	52.2	17	47.29	1	61.9	20
29	50.77	7	50.5	18	47.28	2	59.9	21
Juli 9	50.84	13	48.7	19	47.30	6	57.8	22
19	50.97	20	46.8	22	47.36	11	55.6	24
29	51.17	23	44.6	20	47.47	14	53.2	21
Aug. 8	51.40	27	42.6	19	47.61	17	51.1	19
18	51.67	32	40.7	20	47.78	19	49.2	16
28	51.99	36	38.7	18	47.97	23	47.6	14
Sept. 7	52.35	38	36.9	18	48.20	25	46.2	9
17	52.73	43	35.1	15	48.45	27	45.3	6
27	53.16	45	33.6	14	48.72	29	44.7	0
Okt. 7	53.61	47	32.2	12	49.01	31	44.7	4
17	54.08	48	31.0	10	49.32	31	45.1	10
27	54.56	50	30.0	7	49.63	33	46.1	14
Nov. 6	55.06	48	29.3	4	49.96	31	47.5	19
16	55.54	48	28.9	1	50.27	31	49.4	22
26	56.02	45	28.8	3	50.58	29	51.6	25
Dez. 6	56.47	41	29.1	7	50.87	26	54.1	28
16	56.88	37	29.8	9	51.13	23	56.9	28
26	57.25	30	30.7	13	51.36	18	59.7	30
36	57.55		32.0		51.54		62.7	
Mittl. Ort	50.63		40.4		47.76		60.4	
	307)				308)			

1912	γ Argus. $2^m.1$. AR.	Diff.	Dekl. —	Diff.	Br. 1147. $5^m.8$. AR.	Diff.	Dekl. +	Diff.
	$8^h\ 6^m$		47° 4′		$8^h\ 8^m$		76° 1′	
Jan. 1	$50^s.50$	15	24″.0	36	$36^s.08$	56	37″.2	25
11	50.65	8	27.6	36	36.64	38	39.7	27
21	50.73	2	31.2	34	37.02	18	42.4	29
31	50.75	5	34.6	33	37.20	0	45.3	29
Febr. 10	50.70	11	37.9	29	37.20	19	48.2	27
20	50.59	16	40.8	26	37.01	36	50.9	26
März 1	50.43	21	43.4	22	36.65	50	53.5	22
11	50.22	25	45.6	18	36.15	61	55.7	18
21	49.97	27	47.4	12	35.54	70	57.5	13
31	49.70	28	48.6	8	34.84	76	58.8	9
April 10	49.42	28	49.4	3	34.08	76	59.7	2
20	49.14	28	49.7	1	33.32	75	59.9	2
30	48.86	25	49.6	7	32.57	69	59.7	8
Mai 10	48.61	23	48.9	11	31.88	61	58.9	13
20	48.38	20	47.8	16	31.27	52	57.6	18
30	48.18	17	46.2	19	30.75	40	55.8	20
Juni 9	48.01	12	44.3	23	30.35	26	53.8	25
19	47.89	8	42.0	25	30.09	13	51.3	26
29	47.81	3	39.5	27	29.96	2	48.7	29
Juli 9	47.78	2	36.8	29	29.98	17	45.8	30
19	47.80	7	33.9	33	30.15	34	42.8	33
29	47.87	12	30.6	28	30.49	45	39.5	30
Aug. 8	47.99	15	27.8	27	30.94	57	36.5	29
18	48.14	23	25.1	25	31.51	70	33.6	28
28	48.37	25	22.6	21	32.21	81	30.8	25
Sept. 7	48.62	29	20.5	16	33.02	90	28.3	24
17	48.91	33	18.9	11	33.92	98	25.9	20
27	49.24	36	17.8	6	34.90	105	23.9	16
Okt. 7	49.60	38	17.2	0	35.95	111	22.3	13
17	49.98	39	17.2	7	37.06	113	21.0	9
27	50.37	40	17.9	13	38.19	115	20.1	4
Nov. 6	50.77	39	19.2	19	39.34	113	19.7	1
16	51.16	37	21.1	24	40.47	109	19.8	6
26	51.53	34	23.5	29	41.56	102	20.4	11
Dez. 6	51.87	30	26.4	32	42.58	93	21.5	16
16	52.17	24	29.6	34	43.51	79	23.1	20
26	52.41	18	33.0	36	44.30	65	25.1	23
36	52.59		36.6		44.95		27.4	
Mittl. Ort	49.20		36.7		30.87		37.2	
	309)				310)			

1912	20 Navis. 5ᵐ.3. AR.		Dekl. −		β Cancri. 3ᵐ.5. AR.		Dekl. +		31 Lyncis. 4ᵐ.4. AR.		Dekl. +		ε Argus. 1ᵐ.7. AR.		Dekl. −	
	$8^h 9^m$		15° 31′		$8^h 11^m$		9° 27′		$8^h 16^m$		43° 28′		$8^h 20^m$		59° 13′	
Jan. 1	18.13	16	12.5	25	45.50	19	31.8	12	50.34	25	17.2	8	44.30	18	18.7	37
11	18.29	12	15.0	24	45.69	14	30.6	9	50.59	19	18.0	11	44.48	9	22.4	38
21	18.41	7	17.4	22	45.83	9	29.7	8	50.78	12	19.1	13	44.57	0	26.2	38
31	18.48	1	19.6	20	45.92	3	28.9	6	50.90	6	20.4	15	44.57	7	30.0	36
Febr. 10	18.49	3	21.6	17	45.95	1	28.3	4	50.96	1	21.9	15	44.50	16	33.6	33
20	18.46	7	23.3	14	45.94	5	27.9	2	50.95	7	23.4	14	44.34	23	36.9	30
März 1	18.39	11	24.7	12	45.89	9	27.7	1	50.88	13	24.8	14	44.11	29	39.9	26
11	18.28	14	25.9	8	45.80	12	27.6	1	50.75	16	26.2	12	43.82	34	42.5	21
21	18.14	16	26.7	5	45.68	14	27.7	2	50.59	20	27.4	10	43.48	37	44.6	17
31	17.98	16	27.2	3	45.54	15	27.9	2	50.39	20	28.4	8	43.11	39	46.3	12
April 10	17.82	17	27.5	1	45.39	15	28.1	3	50.19	21	29.2	5	42.72	40	47.5	7
20	17.65	16	27.4	4	45.24	14	28.4	4	49.98	21	29.7	2	42.32	39	48.2	1
30	17.49	14	27.0	6	45.10	12	28.8	4	49.77	18	29.9	1	41.93	38	48.3	3
Mai 10	17.35	12	26.4	9	44.98	10	29.2	4	49.59	15	29.8	3	41.55	36	48.0	9
20	17.23	9	25.5	11	44.88	8	29.6	5	49.44	12	29.5	7	41.19	32	47.1	14
30	17.14	7	24.4	14	44.80	5	30.1	5	49.32	8	28.8	9	40.87	28	45.7	18
Juni 9	17.07	3	23.0	15	44.75	1	30.6	5	49.24	4	27.9	10	40.59	22	43.9	22
19	17.04	0	21.5	16	44.74	2	31.1	5	49.20	1	26.9	13	40.37	17	41.7	26
29	17.04	3	19.9	17	44.76	5	31.6	5	49.21	6	25.6	14	40.20	12	39.1	28
Juli 9	17.07	6	18.2	18	44.81	8	32.1	5	49.27	10	24.2	15	40.08	5	36.3	30
19	17.13	11	16.4	19	44.89	13	32.6	4	49.37	15	22.7	17	40.03	2	33.3	34
29	17.24	13	14.5	17	45.02	14	33.0	3	49.52	19	21.0	17	40.05	9	29.9	32
Aug. 8	17.37	16	12.8	15	45.16	17	33.3	2	49.71	22	19.3	17	40.14	16	26.7	29
18	17.53	19	11.3	13	45.33	20	33.5	1	49.93	26	17.6	17	40.30	23	23.8	27
28	17.72	21	10.0	10	45.53	22	33.6	2	50.19	30	15.9	16	40.53	28	21.1	24
Sept. 7	17.93	24	9.0	7	45.75	25	33.4	3	50.49	32	14.3	17	40.81	35	18.7	20
17	18.17	26	8.3	3	46.00	27	33.1	5	50.81	35	12.6	16	41.16	40	16.7	15
27	18.43	28	8.0	1	46.27	29	32.6	8	51.16	38	11.0	14	41.56	43	15.2	10
Okt. 7	18.71	31	8.1	6	46.56	30	31.8	9	51.54	41	9.6	14	41.99	48	14.2	2
17	19.02	31	8.7	10	46.86	32	30.9	12	51.95	42	8.2	12	42.47	49	14.0	3
27	19.33	32	9.7	14	47.18	32	29.7	13	52.37	43	7.0	10	42.96	49	14.3	11
Nov. 6	19.65	32	11.1	18	47.50	33	28.4	14	52.80	43	6.0	8	43.45	49	15.4	16
16	19.97	31	12.9	20	47.83	32	27.0	16	53.23	42	5.2	5	43.94	46	17.0	23
26	20.28	29	14.9	24	48.15	31	25.4	15	53.65	41	4.7	2	44.40	42	19.3	28
Dez. 6	20.57	27	17.3	25	48.46	28	23.9	14	54.06	37	4.5	1	44.82	37	22.1	31
16	20.84	23	19.8	25	48.74	25	22.5	14	54.43	34	4.6	4	45.19	30	25.2	35
26	21.07	19	22.3	25	48.99	22	21.1	13	54.77	29	5.0	7	45.49	22	28.7	38
36	21.26		24.8		49.21		19.8		55.06		5.7		45.71		32.5	
Mittl. Ort	17.30		21.2		44.65		26.6		48.95		16.2		42.58		33.4	
	311)				312)				314)				315)			

1912	Br. 1197. 3m.6. AR.	Dekl. —	o Ursae maj. 3m.3. AR.	Dekl. +	ϑ Chamael. 4m.2. AR.	Dekl. —	Gr. 1450. 6m.3. AR.	Dekl. +
	8h 21m	3° 36′	8h 22m	61° 0′	8h 23m	77° 11′	8h 27m	38° 18′
Jan. 1	16.63	60.5	60.13	47.1	22.26	46.8	13.21	69.0
11	16.81	62.4	60.48	48.9	22.50	50.6	13.46	69.6
21	16.95	64.2	60.74	50.9	22.55	54.4	13.65	70.3
31	17.04	65.7	60.90	53.1	22.41	58.2	13.78	71.3
Febr. 10	17.08	67.1	60.97	55.4	22.10	61.8	13.85	72.4
20	17.07	68.3	60.94	57.7	21.61	65.3	13.85	73.6
März 1	17.02	69.2	60.82	59.9	20.98	68.5	13.80	74.9
11	16.93	69.9	60.62	61.9	20.21	71.4	13.70	76.1
21	16.81	70.3	60.35	63.6	19.34	73.8	13.56	77.3
31	16.67	70.5	60.04	65.0	18.40	75.8	13.39	78.3
April 10	16.52	70.6	59.71	65.9	17.39	77.3	13.20	79.0
20	16.37	70.4	59.36	66.4	16.36	78.2	13.01	79.6
30	16.23	70.0	59.02	66.5	15.33	78.6	12.83	79.9
Mai 10	16.10	69.5	58.71	66.2	14.31	78.5	12.66	80.0
20	15.99	68.9	58.44	65.4	13.35	77.9	12.52	79.8
30	15.91	68.1	58.21	64.3	12.44	76.8	12.40	79.4
Juni 9	15.85	67.1	58.04	62.8	11.63	75.2	12.33	78.8
19	15.82	66.1	57.94	61.0	10.92	73.1	12.29	78.0
29	15.83	65.0	57.90	58.9	10.34	70.7	12.30	77.0
Juli 9	15.86	63.9	57.93	56.7	9.89	68.0	12.34	75.9
19	15.92	62.7	58.03	54.3	9.60	65.0	12.42	74.7
29	16.02	61.5	58.21	51.6	9.47	61.5	12.56	73.2
Aug. 8	16.15	60.5	58.44	49.1	9.52	58.3	12.72	71.8
18	16.30	59.6	58.74	46.6	9.74	55.2	12.92	70.3
28	16.48	58.9	59.09	44.1	10.13	52.3	13.15	68.8
Sept. 7	16.69	58.4	59.49	41.8	10.67	49.7	13.41	67.2
17	16.92	58.2	59.94	39.5	11.35	47.4	13.71	65.7
27	17.18	58.3	60.44	37.5	12.16	45.7	14.03	64.1
Okt. 7	17.45	58.8	60.98	35.7	13.07	44.5	14.38	62.6
17	17.75	59.5	61.55	34.2	14.05	43.9	14.75	61.2
27	18.06	60.6	62.15	33.0	15.05	44.0	15.13	59.9
Nov. 6	18.37	62.0	62.76	32.1	16.05	44.7	15.53	58.7
16	18.69	63.6	63.37	31.7	17.06	46.2	15.94	57.7
26	19.01	65.5	63.96	31.6	17.97	48.2	16.34	56.9
Dez. 6	19.31	67.5	64.53	32.0	18.78	50.7	16.73	56.3
16	19.58	69.5	65.06	32.8	19.46	53.8	17.09	56.1
26	19.83	71.6	65.53	34.0	19.98	57.2	17.41	56.2
36	20.04	73.6	65.92	35.6	20.32	60.8	17.69	56.5
Mittl. Ort	15.85	67.5	57.79	47.9	17.82	63.2	11.99	68.2
	316)		317)		318)		320)	

1912	η Cancri. 5m.6.				δ Cancri. 3m.9.				α Pyxidis. 3m.7.				ι Cancri. 4m.1.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	8h 27m		20° 44′		8h 39m		18° 28′		8h 40m		32° 51′		8h 41m		29° 4′	
Jan. 1	38.24s	22	29.9″	6	42.04s	22	45.0″	7	4.18s	19	55.2″	32	23.51s	25	58.1″	1
11	38.46	17	29.3	3	42.26	18	44.3	5	4.37	14	58.4	32	23.76	19	58.0	1
21	38.63	11	29.0	1	42.44	12	43.8	3	4.51	8	61.6	31	23.95	14	58.1	4
31	38.74	6	28.9	1	42.56	7	43.5	1	4.59	3	64.7	29	24.09	8	58.5	6
Febr. 10	38.80	1	29.0	2	42.63	2	43.4	1	4.62	3	67.6	27	24.17	2	59.1	7
20	38.81	4	29.2	4	42.65	2	43.5	3	4.59	7	70.3	23	24.19	3	59.8	8
März 1	38.77	8	29.6	5	42.63	8	43.8	4	4.52	12	72.6	20	24.16	8	60.6	9
11	38.69	12	30.1	5	42.55	10	44.2	4	4.40	15	74.6	17	24.08	11	61.5	9
21	38.57	14	30.6	5	42.45	13	44.6	5	4.25	18	76.3	12	23.97	14	62.4	8
31	38.43	15	31.1	5	42.32	14	45.1	5	4.07	19	77.5	9	23.83	16	63.2	7
April 10	38.28	15	31.6	4	42.18	15	45.6	4	3.88	20	78.4	4	23.67	16	63.9	6
20	38.13	15	32.0	4	42.03	14	46.0	4	3.68	20	78.8	0	23.51	16	64.5	4
30	37.98	13	32.4	3	41.89	14	46.4	4	3.48	18	78.8	3	23.35	15	64.9	3
Mai 10	37.85	11	32.7	3	41.75	11	46.8	3	3.30	17	78.5	8	23.20	12	65.2	1
20	37.74	9	33.0	1	41.64	9	47.1	2	3.13	15	77.7	11	23.08	10	65.3	0
30	37.65	5	33.1	1	41.55	6	47.3	2	2.98	12	76.6	15	22.98	8	65.3	2
Juni 9	37.60	2	33.2	0	41.49	3	47.5	1	2.86	9	75.1	18	22.90	4	65.1	4
19	37.58	0	33.2	1	41.46	1	47.6	0	2.77	6	73.3	20	22.86	0	64.7	5
29	37.58	5	33.1	2	41.45	3	47.6	0	2.71	2	71.3	22	22.86	3	64.2	6
Juli 9	37.63	7	32.9	2	41.48	6	47.6	2	2.69	1	69.1	24	22.89	7	63.6	7
19	37.70	12	32.7	3	41.54	10	47.4	2	2.70	5	66.7	24	22.96	9	62.9	8
29	[27] 37.82	14	32.4	4	41.64	13	47.2	3	2.75	9	64.3	26	23.05	14	62.1	10
Aug. 8	37.96	17	32.0	5	[30] 41.77	16	46.9	4	[30] 2.84	12	61.7	22	[31] 23.19	17	61.1	11
18	38.13	19	31.5	6	41.93	18	46.5	6	2.96	16	59.5	21	23.36	19	60.0	11
28	38.32	22	30.9	7	42.11	21	45.9	7	3.12	20	57.4	17	23.55	23	58.9	12
Sept. 7	38.54	25	30.2	9	42.32	23	45.2	8	3.32	23	55.7	14	23.78	26	57.7	13
17	38.79	28	29.3	9	42.55	26	44.4	10	3.55	26	54.3	10	24.04	28	56.4	14
27	39.07	30	28.4	11	42.81	29	43.4	11	3.81	30	53.3	5	24.32	30	55.0	14
Okt. 7	39.37	31	27.3	12	43.10	31	42.3	13	4.11	31	52.8	1	24.62	33	53.6	15
17	39.68	33	26.1	13	43.41	32	41.0	13	4.42	34	52.9	6	24.95	35	52.1	14
27	40.01	35	24.8	13	43.73	34	39.7	14	4.76	35	53.5	12	25.30	37	50.7	14
Nov. 6	40.36	35	23.5	13	44.07	35	38.3	15	5.11	35	54.7	17	25.67	37	49.3	13
16	40.71	34	22.2	13	44.42	34	36.8	14	5.46	34	56.4	21	26.04	37	48.0	12
26	41.05	33	20.9	12	44.76	34	35.4	13	5.80	33	58.5	26	26.41	36	46.8	9
Dez. 6	41.38	31	19.7	11	45.10	31	34.1	13	6.13	30	61.1	29	26.77	34	45.9	8
16	41.69	29	18.6	9	45.41	29	32.8	11	6.43	27	64.0	30	27.11	31	45.1	6
26	41.98	24	17.7	7	45.70	24	31.7	8	6.70	22	67.0	33	27.42	27	44.5	3
36	42.22		17.0		45.94		30.9		6.92		70.3		27.69		44.2	
Mittl. Ort	37.33		26.7		41.18		42.0		3.34		67.2		22.51		56.8	
	321)				326)				327)				328)			

1912	δ Argus. $2^m.0$ AR.	Δ	Dekl. —	Δ	ζ Hydrae. $3^m.1$ AR.	Δ	Dekl. +	Δ	c Carinae. $4^m.0$ AR.	Δ	Dekl. —	Δ	ι Ursae maj. $2^m.9$ AR.	Δ	Dekl. +	Δ
	$8^h\ 42^m$		54° 22′		$8^h\ 50^m$		6° 16′		$8^h\ 53^m$		60° 18′		$8^h\ 53^m$		48° 22′	
Jan. 1	17.73	21	53.7	37	45.33	22	56.5	14	4.73	25	12.1	37	12.84	31	74.2	9
11	17.94	14	57.4	37	45.55	18	55.1	13	4.98	16	15.8	39	13.15	25	75.1	12
21	18.08	6	61.1	37	45.73	12	53.8	11	5.14	7	19.7	38	13.40	18	76.3	15
31	18.14	2	64.8	36	45.85	7	52.7	8	5.21	2	23.5	37	13.58	11	77.8	16
Febr. 10	18.12	9	68.4	34	45.92	3	51.9	7	5.19	10	27.2	36	13.69	3	79.4	18
20	18.03	15	71.8	31	45.95	2	51.2	4	5.09	18	30.8	32	13.72	3	81.2	18
März 1	17.88	22	74.9	27	45.93	6	50.8	2	4.91	25	34.0	30	13.69	10	83.0	18
11	17.66	25	77.6	23	45.87	10	50.6	1	4.66	30	37.0	26	13.59	15	84.8	16
21	17.41	29	79.9	19	45.77	11	50.5	1	4.36	34	39.6	21	13.44	19	86.4	14
31	17.12	32	81.8	14	45.66	14	50.6	2	4.02	37	41.7	16	13.25	21	87.8	11
April 10	16.80	33	83.2	9	45.52	14	50.8	3	3.65	39	43.3	11	13.04	23	88.9	8
20	16.47	33	84.1	3	45.38	14	51.1	4	3.26	40	44.4	6	12.81	23	89.7	5
30	16.14	32	84.4	1	45.24	12	51.5	4	2.86	39	45.0	1	12.58	22	90.2	1
Mai 10	15.82	30	84.3	7	45.12	11	51.9	4	2.47	38	45.1	4	12.36	19	90.3	2
20	15.52	27	83.6	11	45.01	10	52.3	5	2.09	35	44.7	9	12.17	17	90.1	5
30	15.25	25	82.5	15	44.91	6	52.8	6	1.74	31	43.8	15	12.00	13	89.6	8
Juni 9	15.00	20	81.0	20	44.85	4	53.4	6	1.43	27	42.3	18	11.87	8	88.8	11
19	14.80	15	79.0	23	44.81	1	54.0	6	1.16	23	40.5	22	11.79	4	87.7	14
29	14.65	11	76.7	26	44.80	1	54.6	6	0.93	16	38.3	26	11.75	0	86.3	16
Juli 9	14.54	6	74.1	28	44.81	4	55.2	6	0.77	11	35.7	28	11.75	5	84.7	18
19	14.48	0	71.3	30	44.85	8	55.8	5	0.66	4	32.9	30	11.80	9	82.9	19
29	14.48	6	68.3	33	44.93	11	56.3	4	0.62	3	29.9	34	11.89	15	81.0	23
Aug. 8	14.54	12	65.0	29	45.04	13	56.7	2	0.65	10	26.5	30	12.04	19	78.7	21
18	14.66	18	62.1	27	45.17	16	56.9	1	0.75	17	23.5	29	12.23	23	76.6	21
28	14.84	24	59.4	24	45.33	19	57.0	0	0.92	25	20.6	26	12.46	26	74.5	22
Sept. 7	15.08	29	57.0	21	45.52	22	57.0	3	1.17	30	18.0	22	12.72	31	72.3	21
17	15.37	33	54.9	15	45.74	24	56.7	6	1.47	37	15.8	18	13.03	35	70.2	21
27	15.70	38	53.4	11	45.98	26	56.1	8	1.84	43	14.0	12	13.38	38	68.1	20
Okt. 7	16.08	42	52.3	4	46.24	29	55.3	10	2.27	46	12.8	7	13.76	41	66.1	18
17	16.50	44	51.9	2	46.53	31	54.3	13	2.73	50	12.1	0	14.17	43	64.3	16
27	16.94	45	52.1	9	46.84	32	53.0	14	3.23	52	12.1	6	14.60	46	62.7	14
Nov. 6	17.39	45	53.0	15	47.16	33	51.6	17	3.75	51	12.7	13	15.06	46	61.3	12
16	17.84	44	54.5	21	47.49	33	49.9	17	4.26	50	14.0	19	15.52	47	60.1	8
26	18.28	41	56.6	26	47.82	32	48.2	17	4.76	47	15.9	25	15.99	45	59.3	4
Dez. 6	18.69	37	59.2	30	48.14	30	46.5	18	5.23	42	18.4	30	16.44	43	58.9	1
16	19.06	31	62.2	34	48.44	28	44.7	17	5.65	36	21.4	33	16.87	40	58.8	3
26	19.37	25	65.6	37	48.72	24	43.0	16	6.01	29	24.7	37	17.27	34	59.1	7
36	19.62		69.3		48.96		41.4		6.30		28.4		17.61		59.8	
Mittl. Ort	16.43		69.0		44.60		51.7		3.26		28.8		11.34		76.2	
	330)				334)				336)				335)			

1912	α Cancri. 4ᵐ.1. AR.		Dekl. +		10 Ursae maj. 3ᵐ.9. AR.		Dekl. +		κ Ursae maj. 3ᵐ.3. AR.		Dekl. +		α Volantis. 4ᵐ.1. AR.		Dekl. −	
	$8^h 53^m$		12° 11′		$8^h 54^m$		42° 7′		$8^h 57^m$		47° 30′		$9^h 0^m$		66° 2′	
Jan. 1	41.33	23	59.9	12	57.24	30	53.2	6	38.87	32	16.6	8	65.38	28	23.2	37
11	41.56	19	58.7	9	57.54	23	53.8	8	39.19	26	17.4	12	65.66	19	26.9	39
21	41.75	13	57.8	7	57.77	17	54.6	11	39.45	19	18.6	14	65.85	7	30.8	39
31	41.88	8	57.1	5	57.94	10	55.7	13	39.64	11	20.0	16	65.92	2	34.7	38
Febr. 10	41.96	3	56.6	3	58.04	4	57.0	15	39.75	4	21.6	17	65.90	13	38.5	37
20	41.99	2	56.3	1	58.08	3	58.5	15	39.79	3	23.3	18	65.77	21	42.2	34
März 1	41.97	6	56 2	1	58.05	8	60.0	15	39.76	9	25.1	17	65.56	30	45.6	32
11	41.91	9	56.3	2	57.97	13	61.5	14	39.67	14	26.8	16	65.26	37	48.8	27
21	41.82	11	56.5	2	57.84	16	62.9	12	39.53	18	28.4	15	64.89	42	51.5	23
31	41.71	14	56.7	4	57.68	18	64.1	11	39.35	20	29.9	11	64.47	46	53.8	19
April 10	41.57	14	57.1	4	57.50	20	65.2	8	39.15	22	31.0	8	64.01	49	55.7	13
20	41.43	14	57.5	4	57.30	20	66.0	5	38.93	23	31.8	6	63.52	50	57.0	9
30	41.29	13	57.9	5	57.10	19	66.5	2	38.70	21	32.4	2	63.02	49	57.9	3
Mai 10	41.16	11	58.4	4	56.91	17	66.7	0	38.49	19	32.6	1	62.53	49	58.2	3
20	41.05	9	58.8	4	56.74	14	66.7	4	38.30	16	32.5	5	62.04	45	57.9	7
30	40.96	7	59.2	4	56.60	10	66.3	6	38.14	13	32.0	7	61.59	42	57.2	13
Juni 9	40.89	4	59.6	3	56.50	7	65.7	8	38.01	9	31.3	11	61.17	37	55.9	17
19	40.85	1	59.9	4	56.43	3	64.9	11	37.92	4	30.2	13	60.80	31	54.2	21
29	40.84	1	60.3	2	56.40	0	63.8	13	37.88	1	28.9	15	60.49	25	52.1	25
Juli 9	40.85	5	60.5	2	56.40	5	62.5	14	37.87	4	27.4	17	60.24	18	49.6	28
19	40.90	7	60.7	2	56.45	9	61.1	16	37.91	9	25.7	19	60.06	9	46.8	30
29	40.97	12	60.9	0	56.54	14	59.5	19	38.00	15	23.8	22	59.97	1	43.8	34
Aug. 8	41.09	13	60.9	1	56.68	17	57.6	18	38.15	18	21.6	21	59.96	9	40.4	30
18	41.22	16	60.8	3	56.85	20	55.8	19	38.33	22	19.5	21	60.05	17	37.4	30
28	41.38	19	60.5	4	57.05	25	53.9	19	38.55	25	17.4	22	60.22	26	34.4	28
Sept. 7	41.57	22	60.1	6	57.30	27	52.0	19	38.80	30	15.2	21	60.48	34	31.6	24
17	41.79	25	59.5	7	57.57	32	50.1	19	39.10	34	13.1	21	60.82	43	29.2	19
27	42.04	27	58.8	10	57.89	34	48.2	19	39.44	37	11.0	20	61.25	49	27.3	15
Okt. 7	42.31	29	57.8	12	58.23	37	46.3	18	39.81	40	9.0	19	61.74	54	25.8	8
17	42.60	31	56.6	14	58.60	40	44.5	16	40.21	43	7.1	17	62.28	58	25.0	2
27	42.91	33	55.2	14	59.00	41	42.9	15	40.64	45	5.4	15	62.86	61	24.8	4
Nov. 6	43.24	34	53.8	16	59.41	43	41.4	12	41.09	46	3.9	12	63.47	61	25.2	11
16	43.58	33	52.2	16	59.84	42	40.2	10	41.55	46	2.7	8	64.08	59	26.3	18
26	43.91	33	50.6	17	60.26	42	39.2	7	42.01	45	1.9	6	64.67	56	28.1	23
Dez. 6	44.24	31	48.9	15	60.68	40	38.5	4	42.46	43	1.3	2	65.23	50	30.4	29
16	44.55	29	47.4	15	61.08	36	38.1	0	42.89	40	1.1	3	65.73	42	33.3	33
26	44.84	25	45.9	12	61.44	32	38.1	4	43.29	34	1.4	6	66.15	34	36.6	36
36	45.09		44.7		61.76		38.5		43.63		2.0		66.49		40.2	
Mittl. Ort	40.57		56.2		55.97		54.5		37.42		18.8		63.61		40.9	
	337)				339)				341)				343)			

1912	σ² Ursae maj. 4ᵐ.9. AR.		Dekl. +		λ Argus. 2ᵐ.1. AR.		Dekl. −		ϑ Hydrae. 3ᵐ.9. AR.		Dekl. +		β Argus. 1ᵐ.7. AR.		Dekl. −	
	$9^h\ 2^m$		67° 29′		$9^h\ 4^m$		43° 4′		$9^h\ 9^m$		2° 40′		$9^h\ 12^m$		69° 20′	
	s		″		s		″		s		″		s		″	
Jan. 1	42.94	51	29.4	17	46.30	22	22.0	35	47.87	23	74.9	17	16.24	34	57.9	37
11	43.45	39	31.1	21	46.52	17	25.5	35	48.10	20	73.2	16	16.58	22	61.6	38
21	43.84	28	33.2	23	46.69	11	29.0	36	48.30	14	71.6	13	16.80	11	65.4	39
31	44.12	16	35.5	26	46.80	4	32.6	33	48.44	9	70.3	12	16.91	— 1	69.3	39
Febr. 10	44.28	4	38.1	26	46.84	— 1	35.9	32	48.53	4	69.1	8	16.90	13	73.2	38
20	44.32	— 8	40.7	25	46.83	7	39.1	29	48.57	— 1	68.3	7	16.77	23	77.0	35
März 1	44.24	19	43.2	24	46.76	13	42.0	25	48.56	4	67.6	5	16.54	33	80.5	33
11	44.05	28	45.6	22	46.63	16	44.5	23	48.52	8	67.1	2	16.21	40	83.8	29
21	43.77	35	47.8	19	46.47	19	46.8	17	48.44	11	66.9	1	15.81	48	86.7	25
31	43.42	40	49.7	14	46.28	22	48.5	14	48.33	12	66.8	— 1	15.33	52	89.2	21
April 10	43.02	44	51.1	10	46.06	23	49.9	9	48.21	13	66.9	2	14.81	56	91.3	15
20	42.58	44	52.1	5	45.83	23	50.8	4	48.08	14	67.1	3	14.25	57	92.8	11
30	42.14	43	52.6	0	45.60	23	51.2	0	47.94	12	67.4	4	13.68	59	93.9	5
Mai 10	41.71	41	52.6	5	45.37	22	51.2	4	47.82	11	67.8	5	13.09	57	94.4	0
20	41.30	36	52.1	9	45.15	20	50.8	10	47.71	10	68.3	6	12.52	54	94.4	6
30	40.94	30	51.2	14	44.95	17	49.8	13	47.61	8	68.9	6	11.98	51	93.8	10
Juni 9	40.64	24	49.8	18	44.78	14	48.5	17	47.53	5	69.5	7	11.47	46	92.8	14
19	40.40	16	48.0	21	44.64	12	46.8	20	47.48	3	70.2	7	11.01	40	91.2	20
29	40.24	8	45.9	24	44.52	8	44.8	22	47.45	0	70.9	7	10.61	32	89.2	24
Juli 9	40.16	0	43.5	26	44.44	3	42.6	25	47.45	3	71.6	7	10.29	25	86.8	27
19	40.16	8	40.9	28	44.41	0	40.1	27	47.48	5	72.3	6	10.04	15	84.1	29
29	40.24	18	38.1	32	44.41	5	37.4	29	47.53	9	72.9	6	9.89	6	81.2	31
Aug. 8	[5] 40.42	26	34.9	30	[6] 44.46	9	34.5	26	[7] 47.62	11	73.5	4	9.83	— 5	78.1	34
18	40.68	33	31.9	30	44.55	14	31.9	24	47.73	14	73.9	2	[8] 9.88	16	74.7	30
28	41.01	40	28.9	28	44.69	18	29.5	22	47.87	17	74.1	1	10.04	26	71.7	28
Sept. 7	41.41	48	26.1	28	44.87	22	27.3	19	48.04	20	74.2	— 2	10.30	36	68.9	26
17	41.89	54	23.3	26	45.09	27	25.4	14	48.24	23	74.0	4	10.66	45	66.3	21
27	42.43	60	20.7	24	45.36	31	24.0	9	48.47	25	73.6	7	11.11	53	64.2	16
Okt. 7	43.03	65	18.3	21	45.67	33	23.1	4	48.72	28	72.9	10	11.64	61	62.6	10
17	43.68	70	16.2	17	46.00	37	22.7	— 3	49.00	29	71.9	12	12.25	65	61.6	4
27	44.38	72	14.5	14	46.37	38	23.0	8	49.29	32	70.7	15	12.90	68	61.2	— 2
Nov. 6	45.10	75	13.1	9	46.75	39	23.8	14	49.61	33	69.2	17	13.58	69	61.4	9
16	45.85	75	12.2	4	47.14	39	25.2	20	49.94	33	67.5	19	14.27	67	62.3	16
26	46.60	72	11.8	0	47.53	37	27.2	24	50.27	33	65.6	19	14.94	64	63.9	21
Dez. 6	47.32	69	11.8	5	47.90	34	29.6	29	50.60	31	63.7	20	15.58	58	66.0	28
16	48.01	63	12.3	10	48.24	31	32.5	32	50.91	29	61.7	19	16.16	49	68.8	31
26	48.64	55	13.3	15	48.55	26	35.7	34	51.20	25	59.8	18	16.65	39	71.9	35
36	49.19		14.8		48.81		39.1		51.45		58.0		17.04		75.4	
Mittl. Ort	39.95		33.7		45.46		36.7		47.22		69.7		14.33		76.5	
	344)				345)				347)				348)			

1912	83 Cancri. 6ᵐ.7. AR.		Dekl. +		40 Lyncis. 3ᵐ.2. AR.		Dekl. +	
	9ʰ 14ᵐ		18° 4′		9ʰ 15ᵐ		34° 45′	
Jan. 1	5.09	25	46.0	9	42.90	29	53.4	1
11	5.34	21	45.1	7	43.19	24	53.3	3
21	5.55	16	44.4	4	43.43	19	53.6	7
31	5.71	11	44.0	2	43.62	12	54.3	8
Febr. 10	5.82	5	43.8	1	43.74	6	55.1	10
20	5.87	1	43.9	2	43.80	0	56.1	12
März 1	5.88	4	44.1	4	43.80	5	57.3	12
11	5.84	8	44.5	4	43.75	9	58.5	13
21	5.76	11	44.9	6	43.66	13	59.8	11
31	5.65	13	45.5	6	43.53	15	60.9	11
April 10	5.52	13	46.1	5	43.38	17	62.0	9
20	5.39	14	46.6	5	43.21	16	62.9	6
30	5.25	13	47.1	5	43.05	16	63.5	5
Mai 10	5.12	12	47.6	4	42.89	15	64.0	2
20	5.00	11	48.0	3	42.74	13	64.2	0
30	4.89	8	48.3	3	42.61	10	64.2	3
Juni 9	4.81	5	48.6	1	42.51	8	63.9	4
19	4.76	3	48.7	1	42.43	4	63.5	7
29	4.73	0	48.8	0	42.39	0	62.8	9
Juli 9	4.73	3	48.8	2	42.39	2	61.9	10
19	4.76	6	48.6	2	42.41	6	60.9	12
29	4.82	9	48.4	4	42.47	10	59.7	13
Aug. 8	4.91	12	48.0	5	42.57	14	58.4	16
18	[8] 5.03	15	47.5	7	[9] 42.71	17	56.8	16
28	5.18	18	46.8	8	42.88	20	55.2	17
Sept. 7	5.36	20	46.0	9	43.08	23	53.5	17
17	5.56	24	45.1	12	43.31	27	51.8	19
27	5.80	26	43.9	13	43.58	29	49.9	18
Okt. 7	6.06	29	42.6	14	43.87	33	48.1	18
17	6.35	31	41.2	15	44.20	35	46.3	18
27	6.66	33	39.7	17	44.55	38	44.5	17
Nov. 6	6.99	35	38.0	16	44.93	39	42.8	15
16	7.34	35	36.4	16	45.32	39	41.3	14
26	7.69	34	34.8	16	45.71	39	39.9	11
Dez. 6	8.03	33	33.2	15	46.10	37	38.8	9
16	8.36	31	31.7	13	46.47	35	37.9	5
26	8.67	28	30.4	10	46.82	31	37.4	2
36	8.95		29.4		47.13		37.2	
Mittl. Ort	4.33		44.2		41.88		54.8	
	350)				352)			

1912	κ Argus. 2ᵐ.5. AR.		Dekl. —		α Hydrae. 2ᵐ.0. AR.		Dekl. —	
	9ʰ 19ᵐ		54° 37′		9ʰ 23ᵐ		8° 16′	
Jan. 1	24.22	27	47.2	36	16.37	23	28.6	23
11	24.49	21	50.8	37	16.60	20	30.9	22
21	24.70	12	54.5	38	16.80	15	33.1	20
31	24.82	5	58.3	37	16.95	9	35.1	18
Febr. 10	24.87	2	62.0	36	17.04	5	36.9	15
20	24.85	9	65.6	33	17.09	1	38.4	13
März 1	24.76	16	68.9	31	17.10	4	39.7	11
11	24.60	20	72.0	26	17.06	8	40.8	8
21	24.40	25	74.6	23	16.98	10	41.6	6
31	24.15	28	76.9	18	16.88	12	42.2	3
April 10	23.87	30	78.7	14	16.76	13	42.5	1
20	23.57	31	80.1	8	16.63	14	42.6	1
30	23.26	31	80.9	4	16.49	13	42.5	3
Mai 10	22.95	31	81.3	2	16.36	12	42.2	5
20	22.64	28	81.1	7	16.24	11	41.7	7
30	22.36	26	80.4	11	16.13	8	41.0	8
Juni 9	22.10	23	79.3	15	16.05	7	40.2	10
19	21.87	20	77.8	20	15.98	5	39.2	11
29	21.67	15	75.8	23	15.93	1	38.1	11
Juli 9	21.52	11	73.5	26	15.92	0	37.0	12
19	21.41	5	70.9	27	15.92	4	35.8	12
29	21.36	0	68.2	29	15.96	6	34.6	11
Aug. 8	21.36	6	65.3	32	16.02	10	33.5	11
18	[9] 21.42	12	62.1	28	[11] 16.12	12	32.4	9
28	21.54	19	59.3	25	16.24	15	31.5	6
Sept. 7	21.73	24	56.8	23	16.39	18	30.9	4
17	21.97	30	54.5	19	16.57	21	30.5	0
27	22.27	35	52.6	13	16.78	25	30.5	2
Okt. 7	22.62	39	51.3	9	17.03	27	30.7	7
17	23.01	43	50.4	1	17.30	29	31.4	10
27	23.44	45	50.3	5	17.59	31	32.4	13
Nov. 6	23.89	47	50.8	10	17.90	33	33.7	17
16	24.36	46	51.8	17	18.23	33	35.4	19
26	24.82	45	53.5	23	18.56	32	37.3	21
Dez. 6	25.27	41	55.8	28	18.88	32	39.4	23
16	25.68	36	58.6	32	19.20	29	41.7	23
26	26.04	32	61.8	35	19.49	26	44.0	23
36	26.36		65.3		19.75		46.3	
Mittl. Ort	23.24		64.2		15.81		36.1	
	353)				354)			

1912	h Ursae maj. $3^m.5$.				d Ursae maj. $4^m.5$.				θ Ursae maj. $3^m.1$.				ψ Argus. $3^m.6$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$9^h 24^m$		63° 26′		$9^h 26^m$		70° 12′		$9^h 26^m$		52° 4′		$9^h 27^m$		40° 4′	
Jan. 1	$38^s.66$	48	44″.7	13	$46^s.62$	61	58″.1	16	$60^s.31$	38	39″.6	7	$14^s.60$	26	37″.0	33
11	39.14	40	46.0	17	47.23	49	59.7	20	60.69	31	40.3	12	14.86	19	40.3	35
21	39.54	29	47.7	21	47.72	37	61.7	24	61.00	24	41.5	15	15.05	14	43.8	34
31	39.83	20	49.8	23	48.09	24	64.1	25	61.24	16	43.0	18	15.19	8	47.2	33
Febr. 10	40.03	9	52.1	25	48.33	10	66.6	27	61.40	8	44.8	19	15.27	2	50.5	31
20	40.12	2	54.6	25	48.43	4	69.3	28	61.48	0	46.7	20	15.29	3	53.6	29
März 1	40.10	11	57.1	24	48.39	16	72.1	26	61.48	6	48.7	20	15.26	9	56.5	27
11	39.99	20	59.5	22	48.23	27	74.7	24	61.42	13	50.7	19	15.17	12	59.2	22
21	39.79	26	61.7	20	47.96	36	77.1	21	61.29	17	52.6	18	15.05	16	61.4	19
31	39.53	31	63.7	16	47.60	43	79.2	17	61.12	22	54.4	15	14.89	19	63.3	15
April 10	39.22	35	65.3	12	47.17	48	80.9	13	60.90	23	55.9	11	14.70	20	64.8	10
20	38.87	36	66.5	8	46.69	51	82.2	8	60.67	25	57.0	8	14.50	20	65.8	6
30	38.51	36	67.3	4	46.18	51	83.0	2	60.42	24	57.8	5	14.30	21	66.4	2
Mai 10	38.15	34	67.7	2	45.67	48	83.2	2	60.18	23	58.3	0	14.09	20	66.6	3
20	37.81	32	67.5	6	45.19	45	83.0	8	59.95	21	58.3	3	13.89	18	66.3	7
30	37.49	27	66.9	10	44.74	39	82.2	12	59.74	18	58.0	7	13.71	17	65.6	10
Juni 9	37.22	22	65.9	15	44.35	33	81.0	17	59.56	14	57.3	11	13.54	15	64.6	15
19	37.00	16	64.4	18	44.02	25	79.3	20	59.42	9	56.2	13	13.39	11	63.1	18
29	36.84	10	62.6	22	43.77	17	77.3	23	59.33	5	54.9	17	13.28	9	61.3	20
Juli 9	36.74	3	60.4	24	43.60	8	75.0	27	59.28	1	53.2	19	13.19	5	59.3	23
19	36.71	4	58.0	26	43.52	1	72.3	29	59.27	4	51.3	21	13.14	2	57.0	24
29	36.75	10	55.4	27	43.53	11	69.4	30	59.31	8	49.2	23	13.12	2	54.6	25
Aug. 8	36.85	19	52.7	32	43.64	21	66.4	35	59.39	15	46.9	27	13.14	8	52.1	26
18	[11] 37.04	24	49.5	30	[11] 43.85	29	62.9	32	[11] 59.54	19	44.2	25	[12] 13.22	10	49.5	23
28	37.28	30	46.5	29	44.14	38	59.7	31	59.73	23	41.7	25	13.32	16	47.2	22
Sept. 7	37.58	37	43.6	29	44.52	47	56.6	30	59.96	28	39.2	26	13.48	19	45.0	19
17	37.95	44	40.7	27	44.99	54	53.6	30	60.24	32	36.6	24	13.67	24	43.1	14
27	38.39	48	38.0	26	45.53	62	50.6	26	60.56	36	34.2	25	13.91	28	41.7	10
Okt. 7	38.87	54	35.4	24	46.15	69	48.0	24	60.92	41	31.7	22	14.19	31	40.7	5
17	39.41	59	33.0	20	46.84	74	45.6	21	61.33	44	29.5	21	14.50	34	40.2	1
27	40.00	62	31.0	17	47.58	79	43.5	17	61.77	47	27.4	18	14.84	37	40.3	7
Nov. 6	40.62	64	29.3	13	48.37	81	41.8	13	62.24	49	25.6	15	15.21	38	41.0	13
16	41.26	65	28.0	9	49.18	83	40.5	7	62.73	49	24.1	12	15.59	39	42.3	18
26	41.91	65	27.1	4	50.01	82	39.8	2	63.22	49	22.9	7	15.98	37	44.1	23
Dez. 6	42.56	62	26.7	1	50.83	78	39.6	3	63.71	48	22.2	4	16.35	35	46.4	26
16	43.18	57	26.8	6	51.61	73	39.9	8	64.19	45	21.8	1	16.70	32	49.0	31
26	43.75	52	27.4	11	52.34	66	40.7	13	64.64	41	21.9	5	17.02	28	52.1	33
36	44.27		28.5		53.00		42.0		65.05		22.4		17.30		55.4	
Mittl. Ort	36.27		50.4		43.30		64.6		58.75		44.3		13.96		51.7	
	355)				357)				358)				359)			

1912	10 Leon. min. 4ᵐ.6. AR.		Dekl. +		ϑ Antliae. 5ᵐ.0. AR.		Dekl. −		ε Leonis. 3ᵐ.0. AR.		Dekl. +		υ Ursae maj. 3ᵐ.8. AR.		Dekl. +	
	$9^h 28^m$		36° 47′		$9^h 40^m$		27° 21′		$9^h 40^m$		24° 10′		$9^h 44^m$		59° 26′	
Jan. 1	51.24	31	17.2	0	17.17	25	46.2	30	52.29	28	47.0	7	46.51	46	64.8	9
11	51.55	26	17.2	4	17.42	21	49.2	30	52.57	25	46.3	4	46.97	38	65.7	14
21	51.81	20	17.6	6	17.63	16	52.2	30	52.82	19	45.9	2	47.35	31	67.1	18
31	52.01	14	18.2	10	17.79	10	55.2	28	53.01	14	45.7	1	47.66	21	68.9	20
Febr. 10	52.15	8	19.2	11	17.89	5	58.0	26	53.15	8	45.8	4	47.87	12	70.9	23
20	52.23	1	20.3	13	17.94	1	60.6	24	53.23	3	46.2	6	47.99	3	73.2	23
März 1	52.24	3	21.6	14	17.95	5	63.0	21	53.26	1	46.8	7	48.02	6	75.5	24
11	52.21	8	23.0	14	17.90	8	65.1	19	53.25	6	47.5	8	47.96	13	77.9	23
21	52.13	12	24.4	12	17.82	11	67.0	14	53.19	9	48.3	9	47.83	20	80.2	20
31	52.01	15	25.6	12	17.71	13	68.4	11	53.10	12	49.2	9	47.63	25	82.2	18
April 10	51.86	16	26.8	10	17.58	16	69.5	8	52.98	13	50.1	8	47.38	29	84.0	14
20	51.70	17	27.8	8	17.42	15	70.3	4	52.85	14	50.9	7	47.09	30	85.4	10
30	51.53	17	28.6	5	17.27	16	70.7	1	52.71	13	51.6	6	46.79	31	86.4	6
Mai 10	51.36	16	29.1	3	17.11	15	70.8	3	52.58	13	52.2	5	46.48	29	87.0	1
20	51.20	14	29.4	1	16.96	14	70.5	7	52.45	12	52.7	3	46.19	28	87.1	3
30	51.06	11	29.5	3	16.82	13	69.8	9	52.33	9	53.0	1	45.91	25	86.8	8
Juni 9	50.95	8	29.2	5	16.69	11	68.9	12	52.24	8	53.1	0	45.66	20	86.0	11
19	50.87	6	28.7	7	16.58	8	67.7	15	52.16	5	53.1	1	45.46	16	84.9	16
29	50.81	2	28.0	9	16.50	6	66.2	17	52.11	2	53.0	4	45.30	11	83.3	18
Juli 9	50.79	1	27.1	11	16.44	3	64.5	18	52.09	1	52.6	4	45.19	5	81.5	22
19	50.80	5	26.0	14	16.41	1	62.7	19	52.10	3	52.2	6	45.14	0	79.3	24
29	50.85	8	24.6	14	16.40	3	60.8	20	52.13	6	51.6	8	45.14	6	76.9	26
Aug. 8	50.93	13	23.2	18	16.43	7	58.8	22	52.19	10	50.8	10	45.20	12	74.3	30
18	[12] 51.06	15	21.4	18	[15] 16.50	10	56.6	18	[15] 52.29	13	49.8	11	[16] 45.32	18	71.3	29
28	51.21	19	19.6	18	16.60	13	54.8	16	52.42	15	48.7	12	45.50	23	68.4	29
Sept. 7	51.40	22	17.8	20	16.73	17	53.2	13	52.57	19	47.5	14	45.73	29	65.5	30
17	51.62	26	15.8	19	16.90	21	51.9	10	52.76	22	46.1	15	46.02	35	62.5	28
27	51.88	29	13.9	20	17.11	24	50.9	5	52.98	25	44.6	16	46.37	41	59.7	27
Okt. 7	52.17	33	11.9	20	17.35	28	50.4	2	53.23	28	43.0	18	46.78	45	57.0	26
17	52.50	35	9.9	19	17.63	30	50.2	4	53.51	31	41.2	18	47.23	50	54.4	23
27	52.85	38	8.0	19	17.93	33	50.6	9	53.82	34	39.4	18	47.73	54	52.1	20
Nov. 6	53.23	39	6.1	16	18.26	34	51.5	14	54.16	35	37.6	18	48.27	56	50.1	17
16	53.62	40	4.5	15	18.60	36	52.9	18	54.51	36	35.8	17	48.83	58	48.4	12
26	54.02	41	3.0	12	18.96	35	54.7	22	54.87	36	34.1	17	49.41	58	47.2	8
Dez. 6	54.43	39	1.8	9	19.31	33	56.9	26	55.23	36	32.4	14	49.99	56	46.4	3
16	54.82	36	0.9	5	19.64	31	59.5	28	55.59	33	31.0	12	50.55	54	46.1	2
26	55.18	33	0.4	2	19.95	28	62.3	30	55.92	31	29.8	9	51.09	48	46.3	7
36	55.51		0.2		20.23		65.3		56.23		28.9		51.57		47.0	
Mittl. Ort	50.22		19.8		16.69		58.3		51.54		47.6		44.57		71.7	
	360)				366)				367)				368)			

1912	υ Argus. $3^m.0$. AR.	Diff.	υ Argus. Dekl. —	Diff.	6 Sextantis. $6^m.2$. AR.	Diff.	6 Sextantis. Dekl. —	Diff.
	$9^h 44^m$		$64° 39'$		$9^h 46^m$		$3° 49'$	
Jan. 1	$55^s.24$	38	$29''.3$	35	$48^s.47$	25	$43''.9$	21
11	55.62	28	32.8	37	48.72	22	46.0	20
21	55.90	19	36.5	39	48.94	18	48.0	18
31	56.09	9	40.4	39	49.12	12	49.8	16
Febr. 10	56.18	0	44.3	38	49.24	8	51.4	14
20	56.18	8	48.1	37	49.32	3	52.8	11
März 1	56.10	19	51.8	35	49.35	2	53.9	9
11	55.91	25	55.3	31	49.33	5	54.8	6
21	55.66	32	58.4	28	49.28	8	55.4	4
31	55.34	36	61.2	23	49.20	10	55.8	2
April 10	54.98	40	63.5	19	49.10	12	56.0	0
20	54.58	42	65.4	14	48.98	13	56.0	1
30	54.16	44	66.8	9	48.85	12	55.9	3
Mai 10	53.72	44	67.7	4	48.73	11	55.6	5
20	53.28	43	68.1	2	48.62	11	55.1	6
30	52.85	41	67.9	7	48.51	9	54.5	7
Juni 9	52.44	37	67.2	12	48.42	7	53.8	8
19	52.07	34	66.0	16	48.35	5	53.0	8
29	51.73	29	64.4	21	48.30	3	52.2	9
Juli 9	51.44	22	62.3	24	48.27	1	51.3	9
19	51.22	17	59.9	27	48.26	2	50.4	9
29	51.05	9	57.2	29	48.28	4	49.5	8
Aug. 8	50.96	1	54.3	33	48.32	8	48.7	8
18	[16] 50.95	8	51.0	30	[17] 48.40	10	47.9	6
28	51.03	16	48.0	29	48.50	13	47.3	3
Sept. 7	51.19	25	45.1	26	48.63	16	47.0	1
17	51.44	34	42.5	22	48.79	19	46.9	1
27	51.78	41	40.3	19	48.98	23	47.0	5
Okt. 7	52.19	47	38.4	12	49.21	25	47.5	8
17	52.66	53	37.2	7	49.46	28	48.3	11
27	53.19	57	36.5	1	49.74	31	49.4	14
Nov. 6	53.76	60	36.4	6	50.05	32	50.8	17
16	54.36	59	37.0	12	50.37	34	52.5	19
26	54.95	58	38.2	19	50.71	33	54.4	21
Dez. 6	55.53	55	40.1	25	51.04	32	56.5	21
16	56.08	49	42.6	29	51.36	31	58.6	22
26	56.57	42	45.5	34	51.67	27	60.8	22
36	56.99		48.9		51.94		63.0	
Mittl. Ort	54.17		48.7		48.00		50.0	
	369)				370)			

1912	Gr. 1586. $6^m.3$. AR.	Diff.	Gr. 1586. Dekl. +	Diff.	π Leonis. $4^m.9$. AR.	Diff.	π Leonis. Dekl. +	Diff.
	$9^h 50^m$		$73° 17'$		$9^h 55^m$		$8° 27'$	
Jan. 1	$36^s.26$	74	$46''.4$	15	$34^s.38$	28	$63''.3$	17
11	37.00	63	47.9	19	34.66	23	61.6	13
21	37.63	49	49.8	23	34.89	19	60.3	12
31	38.12	33	52.1	26	35.08	14	59.1	9
Febr. 10	38.45	18	54.7	28	35.22	9	58.2	6
20	38.63	2	57.5	28	35.31	5	57.6	4
März 1	38.65	12	60.3	28	35.36	1	57.2	2
11	38.53	27	63.1	26	35.35	4	57.0	1
21	38.26	38	65.7	24	35.31	7	57.1	1
31	37.88	47	68.1	19	35.24	9	57.2	3
April 10	37.41	55	70.0	15	35.15	12	57.5	4
20	36.86	59	71.5	11	35.03	11	57.9	5
30	36.27	60	72.6	5	34.92	12	58.4	5
Mai 10	35.67	60	73.1	0	34.80	12	58.9	5
20	35.07	57	73.1	6	34.68	10	59.4	5
30	34.50	52	72.5	10	34.58	9	59.9	5
Juni 9	33.98	45	71.5	16	34.49	7	60.4	5
19	33.53	38	69.9	19	34.42	6	60.9	5
29	33.15	28	68.0	23	34.36	3	61.4	4
Juli 9	32.87	19	65.7	27	34.33	1	61.8	3
19	32.68	9	63.0	29	34.32	2	62.1	2
29	32.59	2	60.1	32	34.34	4	62.3	1
Aug. 8	32.61	14	56.9	33	34.38	7	62.4	0
18	32.75	25	53.6	36	34.45	10	62.4	1
28	[18] 33.00	35	50.0	34	[19] 34.55	13	62.3	4
Sept. 7	33.35	46	46.6	33	34.68	16	61.9	6
17	33.81	56	43.3	31	34.84	19	61.3	8
27	34.37	63	40.2	30	35.03	22	60.5	11
Okt. 7	35.00	73	37.2	28	35.25	26	59.4	12
17	35.73	82	34.4	24	35.51	28	58.2	15
27	36.55	87	32.0	20	35.79	30	56.7	17
Nov. 6	37.42	91	30.0	15	36.09	33	55.0	18
16	38.33	95	28.5	11	36.42	33	53.2	19
26	39.28	95	27.4	5	36.75	35	51.3	20
Dez. 6	40.23	92	26.9	1	37.10	33	49.3	19
16	41.15	87	27.0	6	37.43	32	47.4	18
26	42.02	80	27.6	11	37.75	29	45.6	18
36	42.82		28.7		38.04		43.8	
Mittl. Ort	32.45		54.9		33.88		60.6	
	372)				378)			

1912	η Leonis. 3m.4. AR.	Δ	Dekl. +	Δ	α Leonis. 1m.3. AR.	Δ	Dekl. +	Δ
	10h 2m		17° 11′		10h 3m		12° 23′	
Jan. 1	32.79	29	31.9	12	41.74	28	52.9	15
11	33.08	25	30.7	9	42.02	25	51.4	12
21	33.33	20	29.8	7	42.27	20	50.2	9
31	33.53	16	29.1	4	42.47	15	49.3	7
Febr. 10	33.69	10	28.7	1	42.62	10	48.6	4
20	33.79	5	28.6	2	42.72	5	48.2	2
März 1	33.84	1	28.8	3	42.77	1	48.0	1
11	33.85	4	29.1	5	42.78	4	48.1	2
21	33.81	6	29.6	6	42.74	7	48.3	4
31	33.75	10	30.2	7	42.67	9	48.7	5
April 10	33.65	11	30.9	7	42.58	10	49.2	5
20	33.54	12	31.6	7	42.48	12	49.7	6
30	33.42	13	32.3	6	42.36	12	50.3	6
Mai 10	33.29	12	32.9	5	42.24	12	50.9	5
20	33.17	10	33.4	5	42.12	10	51.4	5
30	33.07	10	33.9	4	42.02	9	51.9	5
Juni 9	32.97	8	34.3	2	41.93	8	52.4	4
19	32.89	6	34.5	2	41.85	6	52.8	3
29	32.83	3	34.7	1	41.79	4	53.1	2
Juli 9	32.80	2	34.8	1	41.75	1	53.3	2
19	32.78	1	34.7	3	41.74	1	53.5	0
29	32.79	4	34.4	4	41.75	3	53.5	1
Aug. 8	32.83	7	34.0	5	41.78	7	53.4	3
18	32.90	10	33.5	8	41.85	10	53.1	5
28	[21] 33.00	12	32.7	8	[21] 41.95	11	52.6	6
Sept. 7	33.12	16	31.9	11	42.06	16	52.0	8
17	33.28	19	30.8	13	42.22	18	51.2	10
27	33.47	23	29.5	15	42.40	22	50.2	13
Okt. 7	33.70	25	28.0	16	42.62	25	48.9	14
17	33.95	29	26.4	17	42.87	28	47.5	16
27	34.24	31	24.7	19	43.15	30	45.9	18
Nov. 6	34.55	33	22.8	19	43.45	33	44.1	19
16	34.88	35	20.9	20	43.78	34	42.2	19
26	35.23	35	18.9	18	44.12	35	40.3	20
Dez. 6	35.58	35	17.1	18	44.47	34	38.3	18
16	35.93	33	15.3	16	44.81	32	36.5	18
26	36.26	31	13.7	13	45.13	31	34.7	16
36	36.57		12.4		45.44		33.1	
Mittl. Ort	32.22		31.8		41.23		51.5	
	379)				380)			

1912	λ Hydrae. 3m.7. AR.	Δ	Dekl. —	Δ	q Velorum. 3m.9. AR.	Δ	Dekl. —	Δ
	10h 6m		11° 54′		10h 11m		41° 40′	
Jan. 1	18.22	27	59.5	25	2.68	30	52.3	33
11	18.49	24	62.0	24	2.98	25	55.6	33
21	18.73	19	64.4	22	3.23	20	58.9	34
31	18.92	14	66.6	21	3.43	14	62.3	34
Febr. 10	19.06	9	68.7	19	3.57	8	65.7	34
20	19.15	4	70.6	16	3.65	3	69.1	31
März 1	19.19	0	72.2	14	3.68	3	72.2	30
11	19.19	4	73.6	11	3.65	7	75.2	25
21	19.15	7	74.7	9	3.58	12	77.7	22
31	19.08	9	75.6	6	3.46	14	79.9	19
April 10	18.99	11	76.2	3	3.32	17	81.8	15
20	18.88	12	76.5	1	3.15	19	83.3	10
30	18.76	12	76.6	1	2.96	19	84.3	7
Mai 10	18.64	12	76.5	3	2.77	20	85.0	2
20	18.52	11	76.2	5	2.57	19	85.2	2
30	18.41	11	75.7	7	2.38	18	85.0	6
Juni 9	18.30	9	75.0	9	2.20	16	84.4	11
19	18.21	7	74.1	10	2.04	15	83.3	15
29	18.14	5	73.1	11	1.89	12	81.8	16
Juli 9	18.09	3	72.0	12	1.77	10	80.2	20
19	18.06	0	70.8	12	1.67	6	78.2	22
29	18.06	2	69.6	12	1.61	4	76.0	23
Aug. 8	18.08	4	68.4	11	1.57	1	73.7	24
18	18.12	9	67.3	11	1.58	6	71.3	26
28	[22] 18.21	11	66.2	8	[23] 1.64	10	68.7	23
Sept. 7	18.32	14	65.4	5	1.74	15	66.4	20
17	18.46	17	64.9	3	1.89	20	64.4	16
27	18.63	21	64.6	1	2.09	24	62.8	13
Okt. 7	18.84	24	64.7	4	2.33	29	61.5	8
17	19.08	28	65.1	9	2.62	32	60.7	3
27	19.36	30	66.0	12	2.94	36	60.4	2
Nov. 6	19.66	32	67.2	15	3.30	39	60.6	9
16	19.98	34	68.7	18	3.69	39	61.5	14
26	20.32	34	70.5	22	4.08	40	62.9	19
Dez. 6	20.66	33	72.7	23	4.48	39	64.8	24
16	20.99	31	75.0	24	4.87	36	67.2	28
26	21.30	29	77.4	25	5.23	34	70.0	31
36	21.59		79.9		5.57		73.1	
Mittl. Ort	17.89		67.5		2.34		68.2	
	381)				382)			

1912	ζ Leonis. $3^m.4$. AR.		Dekl. +		λ Ursae maj. $3^m.4$. AR.		Dekl. +		μ Ursae maj. $3^m.0$. AR.		Dekl. +		3011.Urs.maj. $5^m.0$. AR.		Dekl. +	
	$10^h\ 11^m$		$23°\ 51'$		$10^h\ 11^m$		$43°\ 20'$		$10^h\ 17^m$		$41°\ 56'$		$10^h\ 17^m$		$66°\ 0'$	
Jan. 1	48.54	30	20.5	10	48.73	37	68.7	0	6.46	38	26.3	1	50.31	60	32.8	8
11	48.84	27	19.5	6	49.10	32	68.7	3	6.84	31	26.2	3	50.91	51	33.6	14
21	49.11	22	18.9	3	49.42	26	69.0	8	7.15	27	26.5	6	51.42	43	35.0	18
31	49.33	17	18.6	0	49.68	20	69.8	12	7.42	20	27.1	11	51.85	32	36.8	22
Febr. 10	49.50	12	18.6	3	49.88	14	71.0	14	7.62	14	28.2	13	52.17	20	39.0	25
20	49.62	6	18.9	6	50.02	7	72.4	16	7.76	8	29.5	16	52.37	10	41.5	26
März 1	49.68	2	19.5	7	50.09	1	74.0	18	7.84	2	31.1	17	52.47	1	44.1	26
11	49.70	3	20.2	9	50.10	5	75.8	18	7.86	4	32.8	17	52.46	12	46.7	26
21	49.67	6	21.1	9	50.05	9	77.6	17	7.82	8	34.5	17	52.34	20	49.3	25
31	49.61	10	22.0	9	49.96	13	79.3	17	7.74	13	36.2	16	52.14	27	51.8	21
April 10	49.51	11	22.9	10	49.83	16	81.0	14	7.61	15	37.8	15	51.87	33	53.9	18
20	49.40	12	23.9	8	49.67	18	82.4	12	7.46	17	39.3	12	51.54	37	55.7	13
30	49.28	13	24.7	8	49.49	18	83.6	9	7.29	17	40.5	9	51.17	39	57.0	9
Mai 10	49.15	13	25.5	6	49.31	19	84.5	6	7.12	18	41.4	6	50.78	40	57.9	5
20	49.02	12	26.1	5	49.12	17	85.1	2	6.94	16	42.0	3	50.38	39	58.4	1
30	48.90	10	26.6	3	48.95	15	85.3	1	6.78	16	42.3	0	49.99	36	58.3	5
Juni 9	48.80	9	26.9	1	48.80	14	85.2	5	6.62	13	42.3	3	49.63	33	57.8	10
19	48.71	7	27.0	1	48.66	10	84.7	7	6.49	10	42.0	6	49.30	28	56.8	15
29	48.64	5	26.9	2	48.56	8	84.0	10	6.39	8	41.4	10	49.02	22	55.3	19
Juli 9	48.59	2	26.7	4	48.48	4	83.0	14	6.31	4	40.4	13	48.80	16	53.4	23
19	48.57	0	26.3	6	48.44	1	81.6	16	6.27	2	39.1	15	48.64	10	51.1	25
29	48.57	3	25.7	8	48.43	2	80.0	18	6.25	2	37.6	17	48.54	2	48.6	29
Aug. 8	48.60	6	24.9	10	48.45	6	78.2	20	6.27	5	35.9	19	48.52	4	45.7	30
18	48.66	10	23.9	12	48.51	11	76.2	24	6.32	10	34.0	24	48.56	12	42.7	35
28	[24] 48.76	12	22.7	12	[24] 48.62	14	73.8	24	[25] 6.42	13	31.6	23	[25] 48.68	20	39.2	33
Sept. 7	48.88	15	21.5	15	48.76	19	71.4	24	6.55	17	29.3	24	48.88	27	35.9	33
17	49.03	19	20.0	16	48.95	22	69.0	25	6.72	22	26.9	25	49.15	34	32.6	32
27	49.22	23	18.4	18	49.17	27	66.5	26	6.94	25	24.4	25	49.49	41	29.4	32
Okt. 7	49.45	25	16.6	20	49.44	31	63.9	25	7.19	30	21.9	25	49.90	49	26.2	29
17	49.70	29	14.6	20	49.75	34	61.4	24	7.49	34	19.4	24	50.39	55	23.3	28
27	49.99	32	12.6	20	50.09	38	59.0	23	7.83	37	17.0	24	50.94	60	20.5	24
Nov. 6	50.31	34	10.6	20	50.47	41	56.7	21	8.20	39	14.6	21	51.54	65	18.1	20
16	50.65	36	8.6	20	50.88	43	54.6	18	8.59	42	12.5	19	52.19	69	16.1	16
26	51.01	36	6.6	18	51.31	43	52.8	15	9.01	43	10.6	16	52.88	69	14.5	11
Dez. 6	51.37	37	4.8	16	51.74	44	51.3	11	9.44	42	9.0	12	53.57	69	13.4	5
16	51.74	34	3.2	14	52.18	41	50.2	7	9.86	41	7.8	8	54.26	67	12.9	0
26	52.08	33	1.8	12	52.59	39	49.5	3	10.27	39	7.0	4	54.93	62	12.9	5
36	52.41		0.6		52.98		49.2		10.66		6.6		55.55		13.4	
Mittl. Ort	47.92		22.5		47.70		75.0		5.51		32.7		47.98		42.8	
	384)				383)				386)				387)			

1912	μ Hydrae. 3ᵐ.9. AR.		μ Hydrae. Dekl. −		J Carinae. 4ᵐ.1. AR.		J Carinae. Dekl. −	
	$10^h\ 21^m$		16° 23′		$10^h\ 22^m$		73° 34′	
Jan. 1	50.29	28	3.3	26	39.95	62	38.9	32
11	50.57	25	5.9	26	40.57	49	42.1	35
21	50.82	20	8.5	25	41.06	37	45.6	38
31	51.02	15	11.0	23	41.43	23	49.4	38
Febr. 10	51.17	11	13.3	22	41.66	10	53.2	40
20	51.28	6	15.5	19	41.76	4	57.2	39
März 1	51.34	1	17.4	17	41.72	16	61.1	38
11	51.35	2	19.1	14	41.56	28	64.9	36
21	51.33	6	20.5	11	41.28	39	68.5	33
31	51.27	9	21.6	8	40.89	47	71.8	29
April 10	51.18	10	22.4	6	40.42	55	74.7	26
20	51.08	12	23.0	3	39.87	61	77.3	20
30	50.96	12	23.3	0	39.26	64	79.3	16
Mai 10	50.84	12	23.3	1	38.62	68	80.9	11
20	50.72	12	23.2	4	37.94	68	82.0	5
30	50.60	11	22.8	7	37.26	68	82.5	0
Juni 9	50.49	10	22.1	9	36.58	66	82.5	5
19	50.39	8	21.2	10	35.92	62	82.0	11
29	50.31	6	20.2	12	35.30	55	80.9	16
Juli 9	50.25	5	19.0	12	34.75	49	79.3	20
19	50.20	2	17.8	14	34.26	40	77.3	23
29	50.18	0	16.4	13	33.86	30	75.0	27
Aug. 8	50.18	3	15.1	13	33.56	18	72.3	29
18	50.21	6	13.8	13	33.38	5	69.4	34
28	26 50.27	9	12.5	11	26 33.33	9	66.0	30
Sept. 7	50.36	13	11.4	7	33.42	22	63.0	28
17	50.49	17	10.7	5	33.64	36	60.2	27
27	50.66	20	10.2	2	34.00	49	57.5	23
Okt. 7	50.86	23	10.0	2	34.49	61	55.2	19
17	51.09	27	10.2	6	35.10	70	53.3	13
27	51.36	30	10.8	10	35.80	79	52.0	8
Nov. 6	51.66	32	11.8	14	36.59	84	51.2	0
16	51.98	34	13.2	18	37.43	86	51.2	6
26	52.32	34	15.0	21	38.29	86	51.8	12
Dez. 6	52.66	34	17.1	23	39.15	82	53.0	19
16	53.00	33	19.4	25	39.97	76	54.9	24
26	53.33	30	21.9	26	40.73	67	57.3	30
36	53.63		24.5		41.40		60.3	
Mittl. Ort	50.05		12.4		39.01		60.5	
	389)				391)			

1912	31 Leon. min. 4ᵐ.2. AR.		31 Leon. min. Dekl. +		Lac. α Antliae. 4ᵐ.2. AR.		Lac. α Antliae. Dekl. −	
	$10^h\ 22^m$		37° 9′		$10^h\ 23^m$		30° 36′	
Jan. 1	48.76	35	24.9	4	7.62	29	56.9	30
11	49.11	31	24.5	0	7.91	26	59.9	30
21	49.42	26	24.5	4	8.17	20	62.9	31
31	49.68	20	24.9	7	8.37	16	66.0	30
Febr. 10	49.88	15	25.6	11	8.53	11	69.0	28
20	50.03	8	26.7	13	8.64	5	71.8	27
März 1	50.11	3	28.0	14	8.69	0	74.5	24
11	50.14	3	29.4	16	8.69	4	76.9	22
21	50.11	7	31.0	15	8.65	7	79.1	18
31	50.04	11	32.5	15	8.58	11	80.9	15
April 10	49.93	13	34.0	14	8.47	12	82.4	12
20	49.80	15	35.4	11	8.35	14	83.6	8
30	49.65	15	36.5	10	8.21	15	84.4	4
Mai 10	49.50	16	37.5	7	8.06	15	84.8	1
20	49.34	15	38.2	4	7.91	15	84.9	3
30	49.19	14	38.6	1	7.76	13	84.6	6
Juni 9	49.05	12	38.7	2	7.63	13	84.0	9
19	48.93	9	38.5	5	7.50	11	83.1	12
29	48.84	8	38.0	7	7.39	10	81.9	14
Juli 9	48.76	5	37.3	10	7.29	7	80.5	17
19	48.71	1	36.3	13	7.22	5	78.8	18
29	48.70	1	35.0	15	7.17	1	77.0	19
Aug. 8	48.71	5	33.5	17	7.16	1	75.1	20
18	48.76	9	31.8	20	7.17	5	73.1	21
28	27 48.85	12	29.8	21	27 7.22	9	71.0	18
Sept. 7	48.97	16	27.7	22	7.31	13	69.2	15
17	49.13	19	25.5	23	7.44	17	67.7	12
27	49.32	24	23.2	24	7.61	21	66.5	9
Okt. 7	49.56	27	20.8	24	7.82	25	65.6	4
17	49.83	31	18.4	24	8.07	29	65.2	1
27	50.14	35	16.0	23	8.36	32	65.3	5
Nov. 6	50.49	38	13.7	22	8.68	35	65.8	11
16	50.87	39	11.5	20	9.03	35	66.9	15
26	51.26	40	9.5	17	9.38	37	68.4	19
Dez. 6	51.66	41	7.8	14	9.75	36	70.3	24
16	52.07	39	6.4	11	10.11	35	72.7	26
26	52.46	36	5.3	6	10.46	31	75.3	29
36	52.82		4.7		10.77		78.2	
Mittl. Ort	47.96		30.6		7.41		70.0	
	390)				392)			

1912	*s* Carinae. 4ᵐ.1. AR.		Dekl. −		36 Ursae maj. 4ᵐ.8. AR.		Dekl. +		9 H. Draconis. 4ᵐ.9. AR.		Dekl. +		33 Sextantis. 6ᵐ.6. AR.		Dekl. −	
	10ʰ 24ᵐ		58° 17′		10ʰ 25ᵐ		56° 25′		10ʰ 27ᵐ		76° 9′		10ʰ 36ᵐ		1° 16′	
	s		″		s		″		s		″		s		″	
Jan. 1	39.10	39	4.0	33	1.72	47	46.5	5	42.95	95	49.0	11	55.85	30	39.2	21
11	39.49	33	7.3	35	2.19	41	47.0	8	43.90	83	50.1	17	56.15	26	41.3	20
21	39.82	26	10.8	37	2.60	34	47.8	14	44.73	69	51.8	21	56.41	22	43.3	17
31	40.08	18	14.5	38	2.94	27	49.2	17	45.42	52	53.9	24	56.63	17	45.0	16
Febr. 10	40.26	9	18.3	37	3.21	18	50.9	20	45.94	34	56.3	28	56.80	13	46.6	13
20	40.35	3	22.0	37	3.39	10	52.9	22	46.28	16	59.1	29	56.93	8	47.9	11
März 1	40.38	−5	25.7	35	3.49	2	55.1	24	46.44	−3	62.0	29	57.01	3	49.0	7
11	40.33	11	29.2	33	3.51	−5	57.5	23	46.41	20	64.9	29	57.04	0	49.7	6
21	40.22	17	32.5	29	3.46	12	59.8	23	46.21	35	67.8	26	57.04	4	50.3	3
31	40.05	22	35.4	26	3.34	18	62.1	20	45.86	49	70.4	23	57.00	6	50.6	2
April 10	39.83	25	38.0	22	3.16	22	64.1	18	45.37	60	72.7	19	56.94	9	50.8	0
20	39.58	29	40.2	16	2.94	25	65.9	14	44.77	67	74.6	15	56.85	9	50.8	2
30	39.29	30	41.8	13	2.69	27	67.3	10	44.10	72	76.1	9	56.76	11	50.6	3
Mai 10	38.99	32	43.1	7	2.42	26	68.3	6	43.38	74	77.0	4	56.65	11	50.3	4
20	38.67	31	43.8	3	2.16	26	68.9	2	42.64	74	77.4	−1	56.54	10	49.9	5
30	38.36	31	44.1	−3	1.90	25	69.1	−2	41.90	70	77.3	7	56.44	10	49.4	6
Juni 9	38.05	29	43.8	8	1.65	21	68.9	7	41.20	65	76.6	12	56.34	9	48.8	7
19	37.76	28	43.0	12	1.44	18	68.2	11	40.55	57	75.4	17	56.25	7	48.1	7
29	37.48	24	41.8	16	1.26	15	67.1	15	39.98	48	73.7	21	56.18	6	47.4	6
Juli 9	37.24	21	40.2	21	1.11	11	65.6	19	39.50	38	71.6	26	56.12	4	46.8	7
19	37.03	16	38.1	23	1.00	6	63.7	21	39.12	27	69.0	28	56.08	3	46.1	7
29	36.87	11	35.8	26	0.94	1	61.6	24	38.85	16	66.2	32	56.05	0	45.4	5
Aug. 8	36.76	6	33.2	28	0.93	−3	59.2	26	38.69	2	63.0	33	56.05	3	44.9	5
18	36.70	−2	30.4	31	0.96	10	56.6	31	38.67	−10	59.7	35	56.08	5	44.4	4
28	[27] 36.72	8	27.3	27	[27] 1.06	14	53.5	30	[28] 38.77	26	56.2	39	[30] 56.13	9	44.0	1
Sept. 7	36.80	15	24.6	26	1.20	20	50.5	30	39.03	37	52.3	36	56.22	12	43.9	−1
17	36.95	23	22.0	23	1.40	26	47.5	31	39.40	50	48.7	35	56.34	14	44.0	3
27	37.18	29	19.7	20	1.66	30	44.4	30	39.90	62	45.2	33	56.48	19	44.3	6
Okt. 7	37.47	36	17.7	15	1.96	36	41.4	29	40.52	74	41.9	32	56.67	22	44.9	9
17	37.83	41	16.2	9	2.32	42	38.5	27	41.26	85	38.7	28	56.89	25	45.8	12
27	38.24	47	15.3	4	2.74	46	35.8	25	42.11	94	35.9	25	57.14	29	47.0	15
Nov. 6	38.71	50	14.9	−3	3.20	49	33.3	22	43.05	101	33.4	20	57.43	31	48.5	17
16	39.21	51	15.2	9	3.69	53	31.1	18	44.06	107	31.4	16	57.74	32	50.2	19
26	39.72	52	16.1	16	4.22	53	29.3	14	45.13	110	29.8	10	58.06	34	52.1	21
Dez. 6	40.24	50	17.7	21	4.75	54	27.9	10	46.23	110	28.8	4	58.40	34	54.2	22
16	40.74	48	19.8	26	5.29	52	26.9	4	47.33	105	28.4	−2	58.74	33	56.4	22
26	41.22	42	22.4	31	5.81	50	26.5	−1	48.38	99	28.6	8	59.07	31	58.6	22
36	41.64		25.5		6.31		26.6		49.37		29.4		59.38		60.8	
Mittl. Ort	38.74		23.4		0.22		55.9		38.72		60.4		55.61		43.5	
	393)				394)				395)				404)			

1912	ϑ Argus. $2^m.8$.				42 Leon. min. $5^m.3$.				μ Argus. $2^m.7$.				l Leonis. $5^m.4$.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	$10^h\ 39^m$		63° 55′		$10^h\ 40^m$		31° 8′		$10^h\ 42^m$		48° 57′		$10^h\ 44^m$		11° 0′	
Jan. 1	49.14	47	38.8	31	59.11	35	40.8	9	58.92	36	0.5	31	38.29	30	40.1	16
11	49.61	40	41.9	34	59.46	30	39.9	4	59.28	32	3.6	33	38.59	28	38.5	14
21	50.01	32	45.3	37	59.76	26	39.5	1	59.60	25	6.9	35	38.87	23	37.1	12
31	50.33	23	49.0	38	60.02	21	39.4	3	59.85	20	10.4	36	39.10	19	35.9	9
Febr. 10	50.56	14	52.8	38	60.23	16	39.7	7	60.05	13	14.0	36	39.29	14	35.0	6
20	50.70	4	56.6	39	60.39	10	40.4	9	60.18	7	17.6	34	39.43	10	34.4	3
März 1	50.74	3	60.5	37	60.49	5	41.3	12	60.25	1	21.0	33	39.53	5	34.1	0
11	50.71	11	64.2	34	60.54	0	42.5	12	60.26	5	24.3	30	39.58	0	34.1	1
21	50.60	18	67.6	32	60.54	5	43.7	14	60.21	9	27.3	27	39.58	3	34.2	4
31	50.42	25	70.8	29	60.49	7	45.1	13	60.12	13	30.0	24	39.55	6	34.6	4
April 10	50.17	29	73.7	25	60.42	11	46.4	13	59.99	17	32.4	20	39.49	8	35.0	6
20	49.88	33	76.2	20	60.31	12	47.7	12	59.82	19	34.4	16	39.41	9	35.6	6
30	49.55	36	78.2	16	60.19	14	48.9	10	59.63	21	36.0	12	39.32	11	36.2	7
Mai 10	49.19	38	79.8	11	60.05	14	49.9	8	59.42	21	37.2	7	39.21	10	36.9	6
20	48.81	39	80.9	5	59.91	13	50.7	6	59.21	22	37.9	3	39.11	11	37.5	6
30	48.42	39	81.4	0	59.78	12	51.3	3	58.99	22	38.2	3	39.00	10	38.1	5
Juni 9	48.03	38	81.4	4	59.66	12	51.6	1	58.77	21	37.9	6	38.90	9	38.6	5
19	47.65	36	81.0	10	59.54	9	51.7	2	58.56	20	37.3	11	38.81	7	39.1	4
29	47.29	33	80.0	15	59.45	7	51.5	4	58.36	18	36.2	14	38.74	6	39.5	3
Juli 9	46.96	29	78.5	19	59.38	6	51.1	6	58.18	16	34.8	18	38.68	4	39.8	2
19	46.67	24	76.6	22	59.32	3	50.5	10	58.02	12	33.0	21	38.64	3	40.0	0
29	46.43	18	74.4	25	59.29	0	49.5	11	57.90	9	30.9	23	38.61	0	40.0	0
Aug. 8	46.25	11	71.9	28	59.29	3	48.4	14	57.81	4	28.6	25	38.61	2	40.0	3
18	46.14	4	69.1	29	59.32	5	47.0	15	57.77	0	26.1	25	38.63	5	39.7	4
28	46.10	5	66.2	31	59.37	10	45.5	20	57.77	6	23.6	28	38.68	9	39.3	6
Sept. 7	[31] 46.15	14	63.1	28	[1] 59.47	13	43.5	19	[1] 57.83	12	20.8	23	[2] 38.77	11	38.7	8
17	46.29	22	60.3	25	59.60	16	41.6	21	57.95	17	18.5	21	38.88	14	37.9	11
27	46.51	31	57.8	22	59.76	21	39.5	22	58.12	22	16.4	17	39.02	18	36.8	12
Okt. 7	46.82	39	55.6	18	59.97	24	37.3	24	58.34	29	14.7	13	39.20	22	35.6	15
17	47.21	47	53.8	13	60.21	28	34.9	23	58.63	33	13.4	8	39.42	25	34.1	17
27	47.68	51	52.5	7	60.49	31	32.6	24	58.96	38	12.6	2	39.67	28	32.4	19
Nov. 6	48.19	58	51.8	0	60.80	35	30.2	23	59.34	42	12.4	3	39.95	31	30.5	20
16	48.77	59	51.8	6	61.15	37	27.9	21	59.76	43	12.7	9	40.26	33	28.5	20
26	49.36	61	52.4	12	61.52	38	25.8	20	60.19	44	13.6	16	40.59	35	26.5	21
Dez. 6	49.97	59	53.6	18	61.90	39	23.8	17	60.63	44	15.2	20	40.94	35	24.4	21
16	50.56	56	55.4	25	62.29	37	22.1	14	61.07	43	17.2	25	41.29	33	22.3	19
26	51.12	50	57.9	28	62.66	35	20.7	10	61.50	38	19.7	30	41.62	32	20.4	18
36	51.62		60.7		63.01		19.7		61.88		22.7		41.94		18.6	
Mittl. Ort	48.89		59.4		58.52		46.0		58.84		18.2		37.98		39.9	
	406)				407)				408)				409)			

1912	ι Velorum. $4^m.5$.				β Ursae maj. $2^m.3$.				α Ursae maj. $1^m.8$.				χ Leonis. $4^m.8$.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$10^h 56^m$		41° 44′		$10^h 56^m$		56° 50′		$10^h 58^m$		62° 13′		$11^h 0^m$		7° 48′	
Jan. 1	6.81		57.4		33.66		64.2		20.05		22.3		28.92		43.8	
		35		30		50		0		57		3		31		18
11	7.16		60.4		34.16		64.2		20.62		22.6		29.23		42.0	
		30		32		45		5		51		7		28		17
21	7.46		63.6		34.61		64.7		21.13		23.3		29.51		40.3	
		26		32		39		12		44		13		24		13
31	7.72		66.8		35.00		65.9		21.57		24.6		29.75		39.0	
		21		34		31		15		36		18		20		11
Febr. 10	7.93		70.2		35.31		67.4		21.93		26.4		29.95		37.9	
		15		33		24		19		27		21		16		9
20	8.08		73.5		35.55		69.3		22.20		28.5		30.11		37.0	
		8		32		16		22		17		24		11		5
März 1	8.16		76.7		35.71		71.5		22.37		30.9		30.22		36.5	
		4		30		7		24		8		26		6		2
11	8.20		79.7		35.78		73.9		22.45		33.5		30.28		36.3	
		1		27		1		25		1		26		2		1
21	8.19		82.4		35.77		76.4		22.44		36.1		30.30		36.2	
		5		25		8		24		10		26		2		2
31	8.14		84.9		35.69		78.8		22.34		38.7		30.28		36.4	
		9		22		13		22		17		24		4		3
April 10	8.05		87.1		35.56		81.0		22.17		41.1		30.24		36.7	
		12		18		19		21		23		21		7		5
20	7.93		88.9		35.37		83.1		21.94		43.2		30.17		37.2	
		15		15		22		17		28		17		8		5
30	7.78		90.4		35.15		84.8		21.66		44.9		30.09		37.7	
		16		10		25		13		31		14		10		6
Mai 10	7.62		91.4		34.90		86.1		21.35		46.3		29.99		38.3	
		17		7		27		10		32		10		10		6
20	7.45		92.1		34.63		87.1		21.03		47.3		29.89		38.9	
		18		2		26		5		33		4		10		6
30	7.27		92.3		34.37		87.6		20.70		47.7		29.79		39.5	
		17		2		26		1		32		0		10		6
Juni 9	7.10		92.1		34.11		87.7		20.38		47.7		29.69		40.1	
		18		5		24		4		31		5		9		5
19	6.92		91.6		33.87		87.3		20.07		47.2		29.60		40.6	
		16		10		22		9		27		10		8		4
29	6.76		90.6		33.65		86.4		19.80		46.2		29.52		41.0	
		14		13		18		12		24		14		7		4
Juli 9	6.62		89.3		33.47		85.2		19.56		44.8		29.45		41.4	
		13		16		16		16		20		18		5		4
19	6.49		87.7		33.31		83.6		19.36		43.0		29.40		41.8	
		11		19		11		20		15		22		4		2
29	6.38		85.8		33.20		81.6		19.21		40.8		29.36		42.0	
		7		21		7		23		10		25		2		0
Aug. 8	6.31		83.7		33.13		79.3		19.11		38.3		29.34		42.0	
		4		22		2		26		5		28		0		0
18	6.27		81.5		33.11		76.7		19.06		35.5		29.34		42.0	
		0		23		2		28		1		31		4		2
28	6.27		79.2		33.13		73.9		19.07		32.4		29.38		41.8	
		5		24		9		33		9		35		7		5
Sept. 7	^{5}6.32		76.8		^{5}33.22		70.6		^{5}19.16		28.9		^{6}29.45		41.3	
		9		20		14		32		14		34		9		6
17	6.41		74.8		33.36		67.4		19.30		25.5		29.54		40.7	
		15		19		19		32		22		33		12		9
27	6.56		72.9		33.55		64.2		19.52		22.2		29.66		39.8	
		19		15		26		33		29		34		16		11
Okt. 7	6.75		71.4		33.81		60.9		19.81		18.8		29.82		38.7	
		25		10		32		31		35		33		21		14
17	7.00		70.4		34.13		57.8		20.16		15.5		30.03		37.3	
		29		6		37		31		42		31		24		16
27	7.29		69.8		34.50		54.7		20.58		12.4		30.27		35.7	
		34		2		42		28		48		29		27		17
Nov. 6	7.63		69.6		34.92		51.9		21.06		9.5		30.54		34.0	
		37		5		47		26		53		26		30		20
16	8.00		70.1		35.39		49.3		21.59		6.9		30.84		32.0	
		39		10		51		22		57		21		32		21
26	8.39		71.1		35.90		47.1		22.16		4.8		31.16		29.9	
		41		15		53		18		60		18		34		21
Dez. 6	8.80		72.6		36.43		45.3		22.76		3.0		31.50		27.8	
		41		20		54		13		61		12		34		22
16	9.21		74.6		36.97		44.0		23.37		1.8		31.84		25.6	
		39		25		53		8		61		6		34		20
26	9.60		77.1		37.50		43.2		23.98		1.2		32.18		23.6	
		37		28		51		2		59		1		33		20
36	9.97		79.9		38.01		43.0		24.57		1.1		32.51		21.6	
Mittl. Ort	6.85		73.4		32.36		75.5		18.42		34.6		28.73		43.1	
	415)				416)				417)				418)			

1912	ψ Ursae maj. $3^m.0$.				β Crateris. $4^m.3$.				δ Leonis. $2^m.4$.				θ Leonis. $3^m.3$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +	
	$11^h 4^m$		$44° 58'$		$11^h 7^m$		$22° 20'$		$11^h 9^m$		$20° 59'$		$11^h 9^m$		$15° 54'$	
Jan. 1	44.05	41	24.4	5	19.64	32	32.4	26	26.12	33	77.9	14	37.65	33	36.4	16
11	44.46	37	23.9	0	19.96	29	35.0	27	26.45	30	76.5	11	37.98	30	34.8	13
21	44.83	33	23.9	5	20.25	24	37.7	27	26.75	27	75.4	7	38.28	26	33.5	10
31	45.16	27	24.4	9	20.49	20	40.4	26	27.02	22	74.7	4	38.54	21	32.5	6
Febr. 10	45.43	21	25.3	13	20.69	16	43.0	25	27.24	17	74.3	1	38.75	17	31.9	4
20	45.64	14	26.6	16	20.85	10	45.5	23	27.41	13	74.2	— 3	38.92	12	31.5	0
März 1	45.78	8	28.2	19	20.95	7	47.8	21	27.54	8	74.5	5	39.04	7	31.5	2
11	45.86	2	30.1	20	21.02	2	49.9	18	27.62	3	75.0	7	39.11	3	31.7	5
21	45.88	— 4	32.1	20	21.04	— 2	51.7	16	27.65	— 1	75.7	10	39.14	0	32.2	6
31	45.84	8	34.1	19	21.02	5	53.3	13	27.64	4	76.7	10	39.14	4	32.8	7
April 10	45.76	12	36.0	19	20.97	7	54.6	10	27.60	7	77.7	10	39.10	7	33.5	8
20	45.64	15	37.9	16	20.90	9	55.6	7	27.53	9	78.7	10	39.03	8	34.3	9
30	45.49	17	39.5	14	20.81	11	56.3	4	27.44	10	79.7	10	38.95	10	35.2	8
Mai 10	45.32	17	40.9	10	20.70	11	56.7	2	27.34	11	80.7	8	38.85	10	36.0	8
20	45.15	19	41.9	7	20.59	11	56.9	— 1	27.23	11	81.5	8	38.75	10	36.8	7
30	44.96	17	42.6	3	20.48	12	56.8	4	27.12	11	82.3	6	38.65	11	37.5	6
Juni 9	44.79	17	42.9	0	20.36	11	56.4	6	27.01	10	82.9	4	38.54	9	38.1	4
19	44.62	15	42.9	4	20.25	11	55.8	9	26.91	9	83.3	1	38.45	9	38.5	4
29	44.47	13	42.5	8	20.14	9	54.9	10	26.82	9	83.4	1	38.36	7	38.9	2
Juli 9	44.34	10	41.7	11	20.05	8	53.9	12	26.73	6	83.5	— 2	38.29	6	39.1	0
19	44.24	8	40.6	14	19.97	7	52.7	14	26.67	4	83.3	4	38.23	5	39.1	1
29	44.16	5	39.2	18	19.90	4	51.3	14	26.63	3	82.9	6	38.18	2	39.0	4
Aug. 8	44.11	1	37.4	20	19.86	1	49.9	14	26.60	0	82.3	8	38.16	0	38.6	5
18	44.10	— 2	35.4	23	19.85	— 1	48.5	14	26.60	2	81.5	10	38.16	2	38.1	7
28	44.12	6	33.1	25	19.86	4	47.1	13	26.62	6	80.5	12	38.18	5	37.4	9
Sept. 7	44.18	12	30.6	30	19.90	9	45.8	12	26.68	10	79.3	16	38.23	9	36.5	12
17	^{7}44.30	15	27.6	28	^{8}19.99	12	44.6	9	^{8}26.78	12	77.7	16	^{8}38.32	12	35.3	14
27	44.45	20	24.8	29	20.11	16	43.7	5	26.90	15	76.1	18	38.44	16	33.9	16
Okt. 7	44.65	25	21.9	29	20.27	20	43.2	2	27.05	21	74.3	20	38.60	20	32.3	17
17	44.90	29	19.0	29	20.47	25	43.0	— 2	27.26	24	72.3	22	38.80	23	30.6	20
27	45.19	34	16.1	28	20.72	28	43.2	6	27.50	28	70.1	22	39.03	28	28.6	21
Nov. 6	45.53	38	13.3	25	21.00	31	43.8	10	27.78	30	67.9	23	39.31	30	26.5	22
16	45.91	41	10.8	24	21.31	34	44.8	14	28.08	34	65.6	23	39.61	33	24.3	22
26	46.32	43	8.4	21	21.65	35	46.2	18	28.42	35	63.3	22	39.94	34	22.1	22
Dez. 6	46.75	45	6.3	16	22.00	36	48.0	22	28.77	36	61.1	21	40.28	35	19.9	21
16	47.20	43	4.7	13	22.36	35	50.2	24	29.13	36	59.0	18	40.63	35	17.8	20
26	47.63	43	3.4	7	22.71	33	52.6	25	29.49	35	57.2	16	40.98	34	15.8	17
36	48.06		2.7		23.04		55.1		29.84		55.6		41.32		14.1	
Mittl. Ort	43.28		34.1		19.70		42.7		25.83		81.6		37.43		38.6	
	420)				421)				422)				423)			

1912	ν Ursae maj. 3ᵐ.4. AR.		Dekl. +		δ Crateris. 3ᵐ.6. AR.		Dekl. —		σ Leonis. 4ᵐ.1. AR.		Dekl. +		π Centauri. 4ᵐ.1. AR.		Dekl. —	
	$11^h 13^m$		33° 33′		$11^h 14^m$		14° 18′		$11^h 16^m$		6° 30′		$11^h 16^m$		54° 0′	
Jan. 1	44.21	36	81.1	10	56.33	32	0.3	25	36.07	32	42.9	19	59.10	43	12.3	27
11	44.57	34	80.1	6	56.65	28	2.8	24	36.39	29	41.0	17	59.53	38	15.0	32
21	44.91	30	79.5	1	56.93	25	5.2	24	36.68	25	39.3	15	59.91	32	18.2	34
31	45.21	24	79.4	3	57.18	21	7.6	23	36.93	21	37.8	12	60.23	27	21.6	35
Febr. 10	45.45	19	79.7	6	57.39	16	9.9	20	37.14	17	36.6	9	60.50	19	25.1	37
20	45.64	14	80.3	11	57.55	12	11.9	19	37.31	12	35.7	6	60.69	13	28.8	35
März 1	45.78	9	81.4	12	57.67	7	13.8	16	37.43	8	35.1	4	60.82	7	32.3	35
11	45.87	3	82.6	14	57.74	3	15.4	13	37.51	4	34.7	1	60.89	1	35.8	33
21	45.90	1	84.0	16	57.77	0	16.7	12	37.55	1	34.6	1	60.90	6	39.1	31
31	45.89	5	85.6	16	57.77	3	17.9	9	37.56	3	34.7	3	60.84	10	42.2	28
April 10	45.84	8	87.2	15	57.74	6	18.8	6	37.53	6	35.0	4	60.74	14	45.0	24
20	45.76	11	88.7	14	57.68	8	19.4	3	37.47	7	35.4	5	60.60	18	47.4	21
30	45.65	12	90.1	13	57.60	9	19.7	2	37.40	9	35.9	5	60.42	20	49.5	17
Mai 10	45.53	14	91.4	10	57.51	10	19.9	1	37.31	9	36.4	6	60.22	23	51.2	12
20	45.39	13	92.4	8	57.41	11	19.8	2	37.22	10	37.0	6	59.99	24	52.4	7
30	45.26	14	93.2	6	57.30	10	19.6	5	37.12	10	37.6	6	59.75	25	53.1	3
Juni 9	45.12	12	93.8	2	57.20	10	19.1	6	37.02	9	38.2	6	59.50	24	53.4	2
19	45.00	12	94.0	0	57.10	9	18.5	7	36.93	8	38.8	5	59.26	25	53.2	6
29	44.88	10	94.0	4	57.01	9	17.8	9	36.85	7	39.3	4	59.01	23	52.6	11
Juli 9	44.78	8	93.6	6	56.92	7	16.9	10	36.78	7	39.7	4	58.78	21	51.5	15
19	44.70	7	93.0	9	56.85	6	15.9	10	36.71	5	40.1	3	58.57	18	50.0	19
29	44.63	3	92.1	12	56.79	4	14.9	11	36.66	3	40.4	1	58.39	15	48.1	21
Aug. 8	44.60	2	90.9	14	56.75	1	13.8	11	36.63	1	40.5	0	58.24	11	46.0	24
18	44.58	2	89.5	17	56.74	0	12.7	10	36.62	2	40.5	1	58.13	6	43.6	25
28	44.60	5	87.8	19	56.74	4	11.7	8	36.64	4	40.4	4	58.07	0	41.1	26
Sept. 7	44.65	9	85.9	24	56.78	8	10.9	8	36.68	8	40.0	6	58.07	7	38.5	28
17	44.74	13	83.5	23	56.86	11	10.1	4	36.76	11	39.4	8	58.14	13	35.7	23
27	44.87	16	81.2	25	56.97	16	9.7	1	36.87	15	38.6	11	58.27	20	33.4	21
Okt. 7	45.03	22	78.7	25	57.13	19	9.6	2	37.02	19	37.5	13	58.47	26	31.3	17
17	45.25	25	76.2	26	57.32	23	9.8	5	37.21	22	36.2	16	58.73	33	29.6	13
27	45.50	30	73.6	26	57.55	26	10.3	9	37.43	26	34.6	17	59.06	38	28.3	7
Nov. 6	45.80	33	71.0	26	57.81	30	11.2	13	37.69	30	32.9	20	59.44	44	27.6	2
16	46.13	36	68.4	24	58.11	32	12.5	16	37.99	31	30.9	20	59.88	46	27.4	4
26	46.49	38	66.0	22	58.43	35	14.1	19	38.30	34	28.9	22	60.34	48	27.8	11
Dez. 6	46.87	39	63.8	20	58.78	34	16.0	21	38.64	34	26.7	22	60.82	50	28.9	16
16	47.26	39	61.8	16	59.12	34	18.1	24	38.98	35	24.5	22	61.32	48	30.5	21
26	47.65	37	60.2	12	59.46	33	20.5	24	39.33	33	22.3	20	61.80	45	32.6	26
36	48.02		59.0		59.79		22.9		39.66		20.3		62.25		35.2	
Mittl. Ort	43.75		88.5		56.39		7.9		35.97		42.3		59.37		31.1	
	425)				426)				427)				428)			

1912	Gr. 1771. $6^m.2$.				λ Draconis. $3^m.6$.				ξ Hydrae. $3^m.6$.				λ Centauri. $3^m.3$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —	
	$11^h\ 17^m$		64° 48′		$11^h\ 26^m$		69° 48′		$11^h\ 28^m$		31° 22′		$11^h\ 31^m$		62° 31′	
Jan. 1	39.83	62	30.4	1	13.66	75	45.9	1	40.00	34	1.5	27	42.46	53	37.8	26
11	40.45	57	30.5	6	14.41	69	46.0	8	40.34	31	4.2	28	42.99	48	40.4	30
21	41.02	51	31.1	12	15.10	61	46.8	13	40.65	28	7.0	29	43.47	41	43.4	33
31	41.53	42	32.3	17	15.71	52	48.1	18	40.93	23	9.9	29	43.88	34	46.7	35
Febr. 10	41.95	33	34.0	22	16.23	41	49.9	22	41.16	18	12.8	29	44.22	26	50.2	37
20	42.28	23	36.2	24	16.64	28	52.1	25	41.34	14	15.7	27	44.48	18	53.9	38
März 1	42.51	12	38.6	26	16.92	16	54.6	28	41.48	8	18.4	26	44.66	10	57.7	37
11	42.63	1	41.2	28	17.08	2	57.4	28	41.56	4	21.0	23	44.76	2	61.4	36
21	42.64	— 7	44.0	26	17.10	— 8	60.2	28	41.60	0	23.3	21	44.78	— 5	65.0	34
31	42.57	15	46.6	26	17.02	19	63.0	27	41.60	3	25.4	18	44.73	12	68.4	32
April 10	42.42	23	49.2	23	16.83	29	65.7	25	41.57	7	27.2	15	44.61	17	71.6	28
20	42.19	29	51.5	20	16.54	36	68.2	21	41.50	8	28.7	12	44.44	22	74.4	25
30	41.90	33	53.5	16	16.18	41	70.3	17	41.42	11	29.9	9	44.22	26	76.9	21
Mai 10	41.57	35	55.1	11	15.77	46	72.0	12	41.31	11	30.8	5	43.96	29	79.0	16
20	41.22	37	56.2	7	15.31	47	73.2	7	41.20	13	31.3	3	43.67	32	80.6	12
30	40.85	37	56.9	1	14.84	48	73.9	1	41.07	13	31.6	— 1	43.35	34	81.8	6
Juni 9	40.48	35	57.0	— 3	14.36	47	74.0	— 3	40.94	13	31.5	4	43.01	34	82.4	2
19	40.13	33	56.7	8	13.89	45	73.7	8	40.81	13	31.1	7	42.67	35	82.6	4
29	39.80	30	55.9	13	13.44	41	72.9	14	40.68	12	30.4	10	42.32	33	82.2	8
Juli 9	39.50	26	54.6	18	13.03	36	71.5	18	40.56	11	29.4	12	41.99	32	81.4	13
19	39.24	21	52.8	21	12.67	30	69.7	22	40.45	9	28.2	15	41.67	28	80.1	18
29	39.03	16	50.7	25	12.37	24	67.5	27	40.36	8	26.7	16	41.39	24	78.3	21
Aug. 8	38.87	11	48.2	28	12.13	17	64.8	29	40.28	5	25.1	17	41.15	18	76.2	24
18	38.76	4	45.4	31	11.96	9	61.9	32	40.23	2	23.4	17	40.97	13	73.8	26
28	38.72	— 3	42.3	33	11.87	1	58.7	34	40.21	— 1	21.7	17	40.84	5	71.2	27
Sept. 7	38.75	11	39.0	38	11.86	— 9	55.3	39	40.22	6	20.0	17	40.79	— 3	68.5	30
17	[11] 38.86	18	35.2	36	[13] 11.95	18	51.4	37	[14] 40.28	10	18.3	14	[15] 40.82	12	65.5	27
27	39.04	26	31.6	35	12.13	28	47.7	37	40.38	15	16.9	10	40.94	21	62.8	24
Okt. 7	39.30	33	28.1	34	12.41	37	44.0	36	40.53	19	15.9	8	41.15	29	60.4	21
17	39.63	41	24.7	33	12.78	46	40.4	34	40.72	24	15.1	3	41.44	38	58.3	17
27	40.04	48	21.4	31	13.24	55	37.0	32	40.96	28	14.8	— 1	41.82	45	56.6	12
Nov. 6	40.52	55	18.3	27	13.79	62	33.8	29	41.24	32	14.9	5	42.27	51	55.4	6
16	41.07	59	15.6	24	14.41	70	30.9	24	41.56	35	15.4	11	42.78	55	54.8	0
26	41.66	63	13.2	20	15.11	74	28.5	19	41.91	37	16.5	15	43.33	59	54.8	7
Dez. 6	42.29	66	11.2	14	15.85	77	26.6	14	42.28	38	18.0	19	43.92	60	55.5	12
16	42.95	65	9.8	8	16.62	78	25.2	9	42.66	37	19.9	22	44.52	58	56.7	18
26	43.60	63	9.0	3	17.40	76	24.3	2	43.03	36	22.1	26	45.10	55	58.5	24
36	44.23		8.7		18.16		24.1		43.39		24.7		45.65		60.9	
Mittl. Ort	38.18		44.1		11.59		60.7		40.25		14.2		42.98		58.2	
	429)				433)				434)				436)			

1912	υ Leonis. 4ᵐ.4. AR.	Diff.	Dekl. −	Diff.	3 Draconis. 5ᵐ.4. AR.	Diff.	Dekl. +	Diff.
	11ʰ 32ᵐ		0° 20′		11ʰ 37ᵐ		67° 13′	
Jan. 1	26.53	32	13.9	21	36.12	69	40.3	1
11	26.85	30	16.0	20	36.81	64	40.2	5
21	27.15	26	18.0	18	37.45	57	40.7	11
31	27.41	23	19.8	16	38.02	49	41.8	16
Febr. 10	27.64	18	21.4	14	38.51	39	43.4	21
20	27.82	13	22.8	10	38.90	28	45.5	24
März 1	27.95	10	23.8	8	39.18	18	47.9	26
11	28.05	5	24.6	6	39.36	6	50.5	28
21	28.10	1	25.2	3	39.42	4	53.3	28
31	28.11	1	25.5	1	39.38	14	56.1	27
April 10	28.10	4	25.6	1	39.24	23	58.8	25
20	28.06	6	25.5	2	39.01	29	61.3	22
30	28.00	8	25.3	4	38.72	35	63.5	18
Mai 10	27.92	8	24.9	4	38.37	38	65.3	14
20	27.84	9	24.5	5	37.99	41	66.7	8
30	27.75	9	24.0	5	37.58	41	67.5	4
Juni 9	27.66	9	23.5	6	37.17	42	67.9	2
19	27.57	9	22.9	6	36.75	39	67.7	6
29	27.48	8	22.3	6	36.36	37	67.1	12
Juli 9	27.40	7	21.7	6	35.99	33	65.9	16
19	27.33	6	21.1	5	35.66	29	64.3	20
29	27.27	5	20.6	5	35.37	23	62.3	25
Aug. 8	27.22	2	20.1	3	35.14	17	59.8	28
18	27.20	0	19.8	2	34.97	10	57.0	31
28	27.20	3	19.6	1	34.87	3	53.9	33
Sept. 7	27.23	6	19.5	2	34.84	5	50.6	39
17	[15] 27.29	9	19.7	4	[16] 34.89	13	46.7	36
27	27.38	14	20.1	7	35.02	22	43.1	37
Okt. 7	27.52	17	20.8	9	35.24	31	39.4	36
17	27.69	21	21.7	12	35.55	39	35.8	35
27	27.90	25	22.9	15	35.94	47	32.3	33
Nov. 6	28.15	28	24.4	17	36.41	55	29.0	30
16	28.43	31	26.1	20	36.96	61	26.0	26
26	28.74	33	28.1	21	37.57	67	23.4	21
Dez. 6	29.07	34	30.2	22	38.24	69	21.3	16
16	29.41	34	32.4	22	38.93	71	19.7	11
26	29.75	33	34.6	23	39.64	69	18.6	4
36	30.08		36.9		40.33		18.2	
Mittl. Ort	26.58		16.3		34.48		55.4	
	437)				440)			

1912	χ Ursae maj. 3ᵐ.8. AR.	Diff.	Dekl. +	Diff.	β Leonis. 2ᵐ.1. AR.	Diff.	Dekl. +	Diff.
	11ʰ 41ᵐ		48° 15′		11ʰ 44ᵐ		15° 3′	
Jan. 1	25.13	44	50.2	7	34.36	33	47.2	17
11	25.57	42	49.5	2	34.69	32	45.5	15
21	25.99	37	49.3	3	35.01	28	44.0	12
31	26.36	32	49.6	8	35.29	24	42.8	9
Febr. 10	26.68	26	50.4	13	35.53	20	41.9	5
20	26.94	20	51.7	16	35.73	15	41.4	1
März 1	27.14	13	53.3	19	35.88	11	41.3	1
11	27.27	7	55.2	22	35.99	7	41.4	4
21	27.34	1	57.4	22	36.06	3	41.8	6
31	27.35	5	59.6	23	36.09	1	42.4	8
April 10	27.30	9	61.9	21	36.08	4	43.2	8
20	27.21	13	64.0	20	36.04	6	44.0	9
30	27.08	16	66.0	17	35.98	7	44.9	9
Mai 10	26.92	18	67.7	14	35.91	9	45.8	9
20	26.74	19	69.1	10	35.82	9	46.7	8
30	26.55	20	70.1	7	35.73	10	47.5	7
Juni 9	26.35	19	70.8	2	35.63	10	48.2	6
19	26.16	18	71.0	2	35.53	10	48.8	5
29	25.98	18	70.8	5	35.43	9	49.3	3
Juli 9	25.80	15	70.3	10	35.34	8	49.6	1
19	25.65	13	69.3	14	35.26	7	49.7	1
29	25.52	10	67.9	17	35.19	5	49.6	2
Aug. 8	25.42	7	66.2	20	35.14	4	49.4	4
18	25.35	4	64.2	24	35.10	1	49.0	7
28	25.31	0	61.8	26	35.09	2	48.3	9
Sept. 7	25.31	5	59.2	28	35.11	4	47.4	11
17	[17] 25.36	10	56.4	33	[18] 35.15	9	46.3	14
27	25.46	15	53.1	32	35.24	12	44.9	16
Okt. 7	25.61	21	49.9	32	35.36	16	43.3	18
17	25.82	25	46.7	32	35.52	20	41.5	20
27	26.07	31	43.5	31	35.72	24	39.5	21
Nov. 6	26.38	36	40.4	29	35.96	28	37.4	23
16	26.74	40	37.5	28	36.24	31	35.1	23
26	27.14	43	34.7	24	36.55	34	32.8	23
Dez. 6	27.57	45	32.3	20	36.89	34	30.5	23
16	28.02	46	30.3	15	37.23	35	28.2	21
26	28.48	45	28.8	11	37.58	35	26.1	20
36	28.93		27.7		37.93		24.1	
Mittl. Ort	24.51		62.5		34.33		50.5	
	441)				444)			

1912	β Virginis. $3^m.5$. AR.		Dekl. +		γ Ursae maj. $2^m.3$. AR.		Dekl. +		o Virginis. $4^m.1$. AR.		Dekl. +		δ Centauri. $2^m.7$. AR.		Dekl. −	
	$11^h 46^m$		$2° 15'$		$11^h 49^m$		$54° 10'$		$12^h 0^m$		$9° 12'$		$12^h 3^m$		$50° 13'$	
Jan. 1	6.57	33	39.3	21	13.20	50	48.7	7	43.49	34	76.2	20	46.80	45	39.0	23
11	6.90	31	37.2	19	13.70	47	48.0	1	43.83	31	74.2	18	47.25	41	41.3	28
21	7.21	27	35.3	18	14.17	42	47.9	4	44.14	29	72.4	15	47.66	37	44.1	30
31	7.48	24	33.5	14	14.59	36	48.3	9	44.43	25	70.9	11	48.03	32	47.1	32
Febr. 10	7.72	20	32.1	12	14.95	30	49.2	15	44.68	21	69.8	9	48.35	26	50.3	33
20	7.92	15	30.9	10	15.25	23	50.7	18	44.89	17	68.9	5	48.61	21	53.6	34
März 1	8.07	11	29.9	6	15.48	15	52.5	22	45.06	12	68.4	3	48.82	15	57.0	33
11	8.18	7	29.3	4	15.63	9	54.7	23	45.18	8	68.1	1	48.97	9	60.3	32
21	8.25	3	28.9	2	15.72	1	57.0	25	45.26	5	68.2	2	49.06	4	63.5	30
31	8.28	0	28.7	1	15.73	5	59.5	25	45.31	1	68.4	5	49.10	1	66.5	28
April 10	8.28	3	28.8	2	15.68	11	62.0	23	45.32	2	68.9	6	49.09	6	69.3	26
20	8.25	5	29.0	3	15.57	15	64.3	22	45.30	4	69.5	7	49.03	9	71.9	22
30	8.20	6	29.3	5	15.42	19	66.5	18	45.26	6	70.2	7	48.94	12	74.1	19
Mai 10	8.14	8	29.8	5	15.23	21	68.3	16	45.20	8	70.9	8	48.82	15	76.0	15
20	8.06	9	30.3	5	15.02	23	69.9	11	45.12	8	71.7	7	48.67	17	77.5	11
30	7.97	8	30.8	6	14.79	24	71.0	7	45.04	9	72.4	7	48.50	19	78.6	7
Juni 9	7.89	9	31.4	6	14.55	24	71.7	3	44.95	9	73.1	7	48.31	21	79.3	2
19	7.80	9	32.0	5	14.31	23	72.0	2	44.86	10	73.8	5	48.10	21	79.5	2
29	7.71	8	32.5	6	14.08	21	71.8	6	44.76	9	74.3	4	47.89	21	79.3	6
Juli 9	7.63	8	33.1	5	13.87	20	71.2	11	44.67	8	74.7	4	47.68	20	78.7	10
19	7.55	6	33.6	4	13.67	17	70.1	15	44.59	7	75.1	1	47.48	19	77.7	14
29	7.49	5	34.0	3	13.50	14	68.6	18	44.52	7	75.2	1	47.29	17	76.3	17
Aug. 8	7.44	4	34.3	2	13.36	10	66.8	23	44.45	4	75.3	2	47.12	14	74.6	20
18	7.40	1	34.5	0	13.26	7	64.5	25	44.41	3	75.1	3	46.98	11	72.6	21
28	7.39	2	34.5	1	13.19	2	62.0	28	44.38	0	74.8	5	46.87	6	70.5	23
Sept. 7	7.41	4	34.4	3	13.17	3	59.2	31	44.38	3	74.3	7	46.81	0	68.2	24
17	7.45	9	34.1	7	13.20	10	56.1	35	44.41	7	73.6	11	46.81	6	65.8	24
27	[19] 7.54	12	33.4	8	[19] 13.30	15	52.6	34	[23] 44.48	10	72.5	12	[24] 46.87	12	63.4	21
Okt. 7	7.66	16	32.6	11	13.45	20	49.2	34	44.58	14	71.3	15	46.99	19	61.3	18
17	7.82	20	31.5	13	13.65	27	45.8	34	44.72	19	69.8	17	47.18	26	59.5	14
27	8.02	24	30.2	17	13.92	33	42.4	32	44.91	23	68.1	19	47.44	31	58.1	10
Nov. 6	8.26	27	28.5	18	14.25	38	39.2	31	45.14	26	66.2	21	47.75	37	57.1	5
16	8.53	31	26.7	20	14.63	43	36.1	29	45.40	30	64.1	22	48.12	42	56.6	0
26	8.84	33	24.7	22	15.06	47	33.2	24	45.70	32	61.9	23	48.54	44	56.6	7
Dez. 6	9.17	34	22.5	22	15.53	50	30.8	21	46.02	34	59.6	23	48.98	47	57.3	11
16	9.51	35	20.3	22	16.03	50	28.7	15	46.36	35	57.3	22	49.45	47	58.4	17
26	9.86	33	18.1	22	16.53	51	27.2	10	46.71	34	55.1	21	49.92	46	60.1	22
36	10.19		15.9		17.04		26.2		47.05		53.0		50.38		62.3	
Mittl. Ort	6.68		38.3		12.45		62.4		43.62		78.0		47.54		56.3	
	445)				447)				450)				452)			

1912	ε Corvi. 3m.0. AR.		Dekl. —		4 H. Draconis. 5m.0. AR.		Dekl. +	
	12h 5m		22° 7′		12h 8m		78° 5′	
Jan. 1	35.36	34	40.4	24	8.25	119	61.2	2
11	35.70	32	42.8	25	9.44	115	61.0	5
21	36.02	30	45.3	25	10.59	106	61.5	10
31	36.32	26	47.8	25	11.65	93	62.5	17
Febr. 10	36.58	21	50.3	24	12.58	77	64.2	21
20	36.79	17	52.7	22	13.35	60	66.3	25
März 1	36.96	13	54.9	21	13.95	40	68.8	28
11	37.09	9	57.0	18	14.35	19	71.6	30
21	37.18	5	58.8	16	14.54	1	74.6	30
31	37.23	1	60.4	14	14.53	20	77.6	30
April 10	37.24	1	61.8	11	14.33	37	80.6	28
20	37.23	4	62.9	9	13.96	53	83.4	24
30	37.19	6	63.8	7	13.43	66	85.8	21
Mai 10	37.13	8	64.5	4	12.77	76	87.9	16
20	37.05	9	64.9	1	12.01	84	89.5	11
30	36.96	10	65.0	1	11.17	87	90.6	6
Juni 9	36.86	10	64.9	3	10.30	89	91.2	0
19	36.76	11	64.6	5	9.41	89	91.2	6
29	36.65	11	64.1	7	8.52	85	90.6	10
Juli 9	36.54	10	63.4	9	7.67	80	89.6	16
19	36.44	10	62.5	10	6.87	73	88.0	21
29	36.34	8	61.5	12	6.14	64	85.9	25
Aug. 8	36.26	6	60.3	12	5.50	52	83.4	29
18	36.20	5	59.1	12	4.98	41	80.5	33
28	36.15	2	57.9	11	4.57	28	77.2	35
Sept. 7	36.13	2	56.8	11	4.29	14	73.7	37
17	36.15	7	55.7	10	4.15	3	70.0	42
27	36.22	10	54.7	6	4.18	18	65.8	39
Okt. 7	36.32	15	54.1	4	4.36	35	61.9	38
17	36.47	19	53.7	0	4.71	51	58.1	38
27	36.66	24	53.7	4	5.22	67	54.3	35
Nov. 6	36.90	28	54.1	8	5.89	81	50.8	32
16	37.18	31	54.9	11	6.70	95	47.6	28
26	37.49	34	56.0	15	7.65	106	44.8	24
Dez. 6	37.83	37	57.5	18	8.71	115	42.4	18
16	38.20	36	59.3	21	9.86	120	40.6	12
26	38.56	35	61.4	23	11.06	121	39.4	6
36	38.91		63.7		12.27		38.8	
Mittl. Ort	35.79		49.3		5.37		78.8	
			453)				454)	

1912	δ Ursae maj. 3m.4. AR.		Dekl. +		β Chamael. 4m.4. AR.		Dekl. —	
	12h 11m		57° 30′		12h 13m		78° 49′	
Jan. 1	5.27	53	61.9	8	7.46	121	3.1	18
11	5.80	51	61.1	2	8.67	112	4.9	24
21	6.31	47	60.9	4	9.79	100	7.3	28
31	6.78	41	61.3	9	10.79	87	10.1	32
Febr. 10	7.19	35	62.2	14	11.66	72	13.3	35
20	7.54	28	63.6	19	12.38	54	16.8	38
März 1	7.82	20	65.5	23	12.92	38	20.6	38
11	8.02	12	67.8	24	13.30	20	24.4	39
21	8.14	4	70.2	26	13.50	3	28.3	39
31	8.18	3	72.8	26	13.53	13	32.2	37
April 10	8.15	9	75.4	26	13.40	29	35.9	35
20	8.06	14	78.0	23	13.11	43	39.4	33
30	7.92	19	80.3	21	12.68	57	42.7	29
Mai 10	7.73	22	82.4	17	12.11	68	45.6	25
20	7.51	25	84.1	13	11.43	77	48.1	21
30	7.26	26	85.4	9	10.66	86	50.2	16
Juni 9	7.00	27	86.3	4	9.80	92	51.8	10
19	6.73	27	86.7	0	8.88	96	52.8	5
29	6.46	27	86.7	5	7.92	96	53.3	0
Juli 9	6.19	24	86.2	10	6.96	94	53.3	6
19	5.95	22	85.2	15	6.02	90	52.7	11
29	5.73	19	83.7	18	5.12	82	51.6	16
Aug. 8	5.54	16	81.9	23	4.30	70	50.0	21
18	5.38	12	79.6	26	3.60	57	47.9	24
28	5.26	6	77.0	29	3.03	41	45.5	27
Sept. 7	5.20	2	74.1	31	2.62	23	42.8	30
17	5.18	5	71.0	36	2.39	1	39.8	32
27	5.23	10	67.4	36	2.38	22	36.6	29
Okt. 7	5.33	17	63.8	36	2.60	42	33.7	28
17	5.50	25	60.2	36	3.02	63	30.9	25
27	5.75	31	56.6	34	3.65	82	28.4	20
Nov. 6	6.06	37	53.2	33	4.47	99	26.4	16
16	6.43	43	49.9	30	5.46	111	24.8	10
26	6.86	48	46.9	27	6.57	121	23.8	4
Dez. 6	7.34	51	44.2	22	7.78	126	23.4	3
16	7.85	54	42.0	17	9.04	128	23.7	9
26	8.39	53	40.3	11	10.32	124	24.6	15
36	8.92		39.2		11.56		26.1	
Mittl. Ort	4.59		77.3		9.75		25.1	
			456)				459)	

1912	η Virginis. 3ᵐ.7. AR.		Dekl. −		α Crucis med. 1ᵐ.0. AR.		Dekl. −		20 Comae. 6ᵐ.0. AR.		Dekl. +		δ Corvi. 2ᵐ.8. AR.		Dekl. −	
	$12^h 15^m$		0° 10′		$12^h 21^m$		62° 36′		$12^h 25^m$		21° 22′		$12^h 25^m$		16° 1′	
Jan. 1	23.89	34	39.3	21	40.76	58	23.1	20	17.94	36	53.0	19	18.03	35	26.0	23
11	24.23	31	41.4	21	41.34	55	25.1	25	18.30	34	51.1	14	18.38	33	28.3	23
21	24.54	29	43.5	18	41.89	50	27.6	28	18.64	31	49.7	11	18.71	30	30.6	23
31	24.83	26	45.3	17	42.39	44	30.4	32	18.95	28	48.6	8	19.01	26	32.9	22
Febr. 10	25.09	22	47.0	13	42.83	37	33.6	34	19.23	24	47.8	3	19.27	23	35.1	21
20	25.31	18	48.3	11	43.20	29	37.0	36	19.47	20	47.5	1	19.50	19	37.2	20
März 1	25.49	14	49.4	8	43.49	22	40.6	36	19.67	15	47.6	5	19.69	15	39.2	17
11	25.63	9	50.2	6	43.71	15	44.2	36	19.82	11	48.1	7	19.84	11	40.9	15
21	25.72	6	50.8	3	43.86	7	47.8	34	19.93	7	48.8	10	19.95	7	42.4	12
31	25.78	3	51.1	0	43.93	0	51.2	34	20.00	4	49.8	11	20.02	3	43.6	11
April 10	25.81	0	51.1	1	43.93	6	54.6	31	20.04	1	50.9	13	20.05	1	44.7	8
20	25.81	3	51.0	2	43.87	11	57.7	28	20.03	3	52.2	13	20.06	2	45.5	6
30	25.78	5	50.8	4	43.76	17	60.5	25	20.00	5	53.5	13	20.04	4	46.1	4
Mai 10	25.73	6	50.4	4	43.59	22	63.0	21	19.95	7	54.8	12	20.00	5	46.5	2
20	25.67	7	50.0	5	43.37	25	65.1	16	19.88	9	56.0	11	19.95	7	46.7	0
30	25.60	8	49.5	6	43.12	29	66.7	13	19.79	9	57.1	10	19.88	9	46.7	2
Juni 9	25.52	9	48.9	6	42.83	32	68.0	7	19.70	11	58.1	7	19.79	9	46.5	3
19	25.43	9	48.3	6	42.51	33	68.7	3	19.59	10	58.8	6	19.70	10	46.2	5
29	25.34	9	47.7	6	42.18	33	69.0	3	19.49	11	59.4	3	19.60	10	45.7	6
Juli 9	25.25	9	47.1	5	41.85	34	68.7	7	19.38	10	59.7	1	19.50	10	45.1	7
19	25.16	8	46.6	5	41.51	32	68.0	12	19.28	10	59.8	1	19.40	10	44.4	9
29	25.08	7	46.1	4	41.19	29	66.8	16	19.18	9	59.7	4	19.30	8	43.5	8
Aug. 8	25.01	6	45.7	3	40.90	26	65.2	20	19.09	7	59.3	7	19.22	7	42.7	9
18	24.95	4	45.4	1	40.64	20	63.2	22	19.02	5	58.6	9	19.15	6	41.8	9
28	24.91	1	45.3	0	40.44	15	61.0	25	18.97	3	57.7	12	19.09	3	40.9	9
Sept. 7	24.90	1	45.3	2	40.29	7	58.5	27	18.94	0	56.5	14	19.06	0	40.0	7
17	24.91	5	45.5	4	40.22	2	55.8	26	18.94	3	55.1	17	19.06	4	39.3	5
27	24.96	10	45.9	7	40.24	12	53.2	28	18.97	9	53.4	21	19.10	9	38.8	3
Okt. 7	[27] 25.06	13	46.6	9	[28] 40.36	21	50.4	23	[29] 19.06	12	51.3	21	[29] 19.19	12	38.5	0
17	25.19	17	47.5	12	40.57	29	48.1	21	19.18	16	49.2	24	19.31	17	38.5	3
27	25.36	21	48.7	15	40.86	38	46.0	16	19.34	21	46.8	25	19.48	22	38.8	6
Nov. 6	25.57	26	50.2	17	41.24	45	44.4	11	19.55	25	44.3	25	19.70	26	39.4	10
16	25.83	29	51.9	19	41.69	53	43.3	6	19.80	29	41.8	26	19.96	29	40.4	13
26	26.12	31	53.8	21	42.22	57	42.7	1	20.09	32	39.2	26	20.25	33	41.7	16
Dez. 6	26.43	34	55.9	22	42.79	60	42.6	6	20.41	35	36.6	24	20.58	34	43.3	18
16	26.77	34	58.1	22	43.39	61	43.2	12	20.76	36	34.2	23	20.92	35	45.1	20
26	27.11	34	60.3	23	44.00	60	44.4	19	21.12	36	31.9	20	21.27	35	47.1	22
36	27.45		62.6		44.60		46.3		21.48		29.9		21.62		49.3	
Mittl. Ort	24.19		40.2		41.99		42.6		18.09		59.8		18.54		32.2	
	460)				462)				466)				465)			

1912	8 Canum ven. $4^m.3$.				β Corvi. $2^m.6$.				κ Draconis. $3^m.6$.				24 Comae seq. $5^m.1$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +	
	$12^h 29^m$		$41° 49'$		$12^h 29^m$		$22° 54'$		$12^h 29^m$		$70° 15'$		$12^h 30^m$		$18° 51'$	
Jan. 1	$34^s.11$	42	$54''.9$	14	$45^s.08$	36	$28''.4$	23	$45^s.18$	78	$65''.6$	7	$42^s.80$	36	$34''.8$	19
11	34.53	40	53.5	9	45.44	34	30.7	24	45.96	76	64.9	1	43.16	33	32.9	16
21	34.93	37	52.6	4	45.78	31	33.1	24	46.72	71	64.8	— 6	43.49	31	31.3	13
31	35.30	33	52.2	— 1	46.09	28	35.5	25	47.43	63	65.4	12	43.80	28	30.0	8
Febr. 10	35.63	29	52.3	7	46.37	24	38.0	23	48.06	55	66.6	17	44.08	24	29.2	4
20	35.92	23	53.0	11	46.61	19	40.3	22	48.61	43	68.3	22	44.32	21	28.8	1
März 1	36.15	18	54.1	15	46.80	16	42.5	21	49.04	32	70.5	25	44.53	16	28.7	— 3
11	36.33	13	55.6	18	46.96	12	44.6	19	49.36	21	73.0	28	44.69	11	29.0	6
21	36.46	7	57.4	20	47.08	7	46.5	16	49.57	8	75.8	29	44.80	8	29.6	8
31	36.53	2	59.4	22	47.15	5	48.1	15	49.65	— 4	78.7	29	44.88	4	30.4	10
April 10	36.55	— 2	61.6	22	47.20	1	49.6	12	49.61	15	81.6	29	44.92	0	31.4	12
20	36.53	6	63.8	21	47.21	— 2	50.8	10	49.46	25	84.5	26	44.92	2	32.6	12
30	36.47	9	65.9	19	47.19	4	51.8	7	49.21	33	87.1	23	44.90	5	33.8	12
Mai 10	36.38	12	67.8	17	47.15	6	52.5	5	48.88	39	89.4	19	44.85	7	35.0	12
20	36.26	14	69.5	15	47.09	7	53.0	3	48.49	45	91.3	14	44.78	7	36.2	11
30	36.12	16	71.0	11	47.02	9	53.3	0	48.04	48	92.7	10	44.71	9	37.3	9
Juni 9	35.96	16	72.1	8	46.93	10	53.3	2	47.56	50	93.7	4	44.62	10	38.2	8
19	35.80	16	72.9	4	46.83	11	53.1	4	47.06	51	94.1	— 1	44.52	11	39.0	6
29	35.64	17	73.3	0	46.72	11	52.7	5	46.55	49	94.0	6	44.41	10	39.6	4
Juli 9	35.47	16	73.3	3	46.61	11	52.2	8	46.06	48	93.4	11	44.31	10	40.0	1
19	35.31	15	73.0	8	46.50	10	51.4	9	45.58	45	92.3	16	44.21	10	40.1	0
29	35.16	13	72.2	11	46.40	10	50.5	10	45.13	40	90.7	21	44.11	9	40.1	3
Aug. 8	35.03	12	71.1	15	46.30	9	49.5	12	44.73	35	88.6	25	44.02	7	39.8	5
18	34.91	9	69.6	19	46.21	6	48.3	11	44.38	28	86.1	29	43.95	6	39.3	8
28	34.82	5	67.7	22	46.15	3	47.2	11	44.10	21	83.2	32	43.89	3	38.5	10
Sept. 7	34.77	2	65.5	24	46.12	1	46.1	11	43.89	13	80.0	35	43.86	0	37.5	13
17	34.75	— 1	63.1	27	46.11	— 3	45.0	9	43.76	4	76.5	37	43.86	2	36.2	15
27	34.76	7	60.4	32	46.14	8	44.1	8	43.72	— 7	72.8	42	43.88	8	34.7	20
Okt. 7	34.83	12	57.2	31	46.22	13	43.3	4	43.79	17	68.6	38	43.96	11	32.7	20
17	34.95	18	54.1	32	46.35	17	42.9	1	43.96	27	64.8	38	44.07	16	30.7	22
27	35.13	22	50.9	32	46.52	22	42.8	2	44.23	38	61.0	37	44.23	21	28.5	24
Nov. 6	35.35	28	47.7	32	46.74	27	43.0	6	44.61	49	57.3	34	44.44	24	26.1	25
16	35.63	32	44.5	30	47.01	30	43.6	10	45.10	57	53.9	32	44.68	29	23.6	25
26	35.95	36	41.5	28	47.31	33	44.6	13	45.67	65	50.7	27	44.97	31	21.1	26
Dez. 6	36.31	40	38.7	25	47.64	35	45.9	17	46.32	72	48.0	22	45.28	34	18.5	24
16	36.71	41	36.2	22	47.99	37	47.6	19	47.04	76	45.8	17	45.62	35	16.1	23
26	37.12	41	34.0	17	48.36	36	49.5	22	47.80	77	44.1	11	45.97	35	13.8	21
36	37.53		32.3		48.72		51.7		48.57		43.0		46.32		11.7	
Mittl. Ort	34.01		67.8		45.69		36.8		43.99		83.5		43.01		41.0	
	470)				471)				472)				473)			

1912	α Muscae. 2ᵐ.8.				γ Centauri. 2ᵐ.3.				76 Ursae maj. 6ᵐ.2.				β Crucis. 1ᵐ.4.			
	AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	$12^h\,31^m$		68° 38′		$12^h\,36^m$		48° 28′		$12^h\,37^m$		63° 11′		$12^h\,42^m$		59° 12′	
Jan. 1	53.82	71	42.8	18	38.40	45	20.0	21	44.16	61	28.6	11	32.86	55	10.1	19
11	54.53	68	44.6	23	38.85	42	22.1	23	44.77	59	27.5	4	33.41	53	12.0	22
21	55.21	62	46.9	27	39.27	40	24.4	27	45.36	56	27.1	3	33.94	48	14.2	27
31	55.83	56	49.6	31	39.67	35	27.1	29	45.92	51	27.4	9	34.42	44	16.9	29
Febr. 10	56.39	47	52.7	34	40.02	31	30.0	31	46.43	44	28.3	14	34.86	38	19.8	32
20	56.86	38	56.1	35	40.33	25	33.1	32	46.87	36	29.7	19	35.24	31	23.0	34
März 1	57.24	29	59.6	37	40.58	20	36.3	31	47.23	27	31.6	23	35.55	25	26.4	34
11	57.53	19	63.3	38	40.78	14	39.4	31	47.50	19	33.9	26	35.80	18	29.8	35
21	57.72	11	67.1	36	40.92	10	42.5	30	47.69	9	36.5	27	35.98	12	33.3	33
31	57.83	2	70.7	35	41.02	4	45.5	28	47.78	0	39.2	28	36.10	6	36.6	33
April 10	57.85	6	74.2	33	41.06	1	48.3	25	47.78	7	42.0	28	36.16	1	39.9	31
20	57.79	14	77.5	31	41.07	4	50.8	24	47.71	15	44.8	26	36.15	5	43.0	28
30	57.65	21	80.6	28	41.03	7	53.2	19	47.56	21	47.4	24	36.10	11	45.8	24
Mai 10	57.44	28	83.4	23	40.96	11	55.1	17	47.35	25	49.8	20	35.99	15	48.2	21
20	57.16	33	85.7	20	40.85	13	56.8	13	47.10	30	51.8	16	35.84	19	50.3	17
30	56.83	37	87.7	15	40.72	16	58.1	9	46.80	33	53.4	11	35.65	22	52.0	14
Juni 9	56.46	42	89.2	10	40.56	17	59.0	5	46.47	34	54.5	7	35.43	26	53.4	8
19	56.04	44	90.2	6	40.39	19	59.5	1	46.13	36	55.2	1	35.17	27	54.2	5
29	55.60	45	90.8	0	40.20	20	59.6	2	45.77	34	55.3	3	34.90	29	54.7	1
Juli 9	55.15	46	90.8	5	40.00	20	59.4	8	45.43	34	55.0	9	34.61	29	54.6	5
19	54.69	44	90.3	11	39.80	19	58.6	10	45.09	32	54.1	13	34.32	29	54.1	10
29	54.25	41	89.2	14	39.61	19	57.6	14	44.77	29	52.8	18	34.03	27	53.1	14
Aug. 8	53.84	36	87.8	19	39.42	16	56.2	17	44.48	26	51.0	22	33.76	24	51.7	17
18	53.48	30	85.9	23	39.26	13	54.5	19	44.22	20	48.8	27	33.52	20	50.0	21
28	53.18	22	83.6	25	39.13	9	52.6	21	44.02	16	46.1	29	33.32	15	47.9	23
Sept. 7	52.96	13	81.1	27	39.04	5	50.5	22	43.86	10	43.2	33	33.17	9	45.6	24
17	52.83	3	78.4	28	38.99	1	48.3	21	43.76	3	39.9	35	33.08	2	43.2	25
27	52.80	10	75.6	30	39.00	8	46.2	22	43.73	5	36.4	40	33.06	7	40.7	27
Okt. 7	[1] 52.90	22	72.6	26	[3] 39.08	14	44.0	19	[3] 43.78	12	32.4	38	[4] 33.13	16	38.0	23
17	53.12	33	70.0	23	39.22	21	42.1	15	43.90	21	28.6	37	33.29	24	35.7	21
27	53.45	44	67.7	19	39.43	27	40.6	11	44.11	29	24.9	36	33.53	32	33.6	16
Nov. 6	53.89	54	65.8	15	39.70	33	39.5	7	44.40	37	21.3	35	33.85	39	32.0	12
16	54.43	62	64.3	9	40.03	38	38.8	2	44.77	44	17.8	33	34.24	46	30.8	7
26	55.05	68	63.4	3	40.41	42	38.6	3	45.21	51	14.5	29	34.70	51	30.1	1
Dez. 6	55.73	73	63.1	3	40.83	45	38.9	9	45.72	56	11.6	24	35.21	55	30.0	4
16	56.46	74	63.4	8	41.28	46	39.8	13	46.28	59	9.2	19	35.76	56	30.4	10
26	57.20	74	64.2	15	41.74	46	41.1	19	46.87	61	7.3	14	36.32	56	31.4	16
36	57.94		65.7		42.20		43.0		47.48		5.9		36.88		33.0	
Mittl. Ort	55.50		63.1		39.42		35.9		43.53		45.9		34.24		28.2	
	474)				476)				478)				481)			

1912	α Centauri. $4^m.4$.				ε Ursae maj. $1^m.7$.				δ Virginis. $3^m.4$.				12 Can. ven. sq. $2^m.8$.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$12^h 48^m$		39° 41′		$12^h 50^m$		56° 25′		$12^h 51^m$		3° 52′		$12^h 51^m$		38° 47′	
	s		″		s		″		s		″		s		″	
Jan. 1	32.48	41	48.9	20	9.94	52	57.6	13	9.73	34	29.7	21	54.71	40	23.5	17
11	32.89	39	50.9	23	10.46	51	56.3	8	10.07	33	27.6	20	55.11	39	21.8	13
21	33.28	36	53.2	26	10.97	48	55.5	1	10.40	31	25.6	18	55.50	37	20.5	7
31	33.64	33	55.8	27	11.45	44	55.4	5	10.71	28	23.8	15	55.87	34	19.8	1
Febr. 10	33.97	29	58.5	28	11.89	38	55.9	11	10.99	25	22.3	12	56.21	30	19.7	4
20	34.26	25	61.3	29	12.27	33	57.0	16	11.24	21	21.1	9	56.51	25	20.1	8
März 1	34.51	19	64.2	28	12.60	26	58.6	20	11.45	17	20.2	6	56.76	20	20.9	13
11	34.70	16	67.0	26	12.86	18	60.6	23	11.62	13	19.6	3	56.96	15	22.2	16
21	34.86	10	69.6	26	13.04	11	62.9	26	11.75	9	19.3	0	57.11	11	23.8	18
31	34.96	7	72.2	23	13.15	4	65.5	27	11.84	7	19.3	2	57.22	4	25.6	21
April 10	35.03	3	74.5	22	13.19	3	68.2	26	11.91	3	19.5	3	57.26	1	27.7	21
20	35.06	1	76.7	19	13.16	9	70.8	26	11.94	0	19.8	5	57.27	3	29.8	21
30	35.05	4	78.6	16	13.07	13	73.4	24	11.94	2	20.3	6	57.24	6	31.9	21
Mai 10	35.01	6	80.2	14	12.94	18	75.8	21	11.92	4	20.9	7	57.18	9	34.0	18
20	34.95	9	81.6	10	12.76	21	77.9	17	11.88	5	21.6	7	57.09	12	35.8	16
30	34.86	11	82.6	7	12.55	24	79.6	13	11.83	7	22.3	7	56.97	13	37.4	13
Juni 9	34.75	13	83.3	4	12.31	26	80.9	9	11.76	9	23.0	7	56.84	15	38.7	10
19	34.62	14	83.7	0	12.05	26	81.8	4	11.67	9	23.7	6	56.69	15	39.7	6
29	34.48	16	83.7	3	11.79	27	82.2	0	11.58	9	24.3	6	56.54	15	40.3	2
Juli 9	34.32	15	83.4	6	11.52	26	82.2	6	11.49	10	24.9	5	56.39	16	40.5	1
19	34.17	16	82.8	10	11.26	26	81.6	10	11.39	10	25.4	3	56.23	15	40.4	5
29	34.01	15	81.8	12	11.00	23	80.6	15	11.29	9	25.7	3	56.08	15	39.9	9
Aug. 8	33.86	13	80.6	14	10.77	21	79.1	19	11.20	8	26.0	1	55.93	12	39.0	13
18	33.73	11	79.2	17	10.56	18	77.2	23	11.12	7	26.1	0	55.81	11	37.7	16
28	33.62	9	77.5	17	10.38	13	74.9	26	11.05	5	26.1	3	55.70	8	36.1	19
Sept. 7	33.53	4	75.8	18	10.25	9	72.3	30	11.00	2	25.8	4	55.62	4	34.2	22
17	33.49	0	74.0	17	10.16	4	69.3	33	10.98	1	25.4	6	55.58	1	32.0	26
27	33.49	7	72.3	19	10.12	3	66.0	37	10.99	5	24.8	9	55.57	3	29.4	27
Okt. 7	33.56	11	70.4	14	10.15	9	62.3	36	11.04	10	23.9	12	55.60	10	26.7	33
17	33.67	18	69.0	11	10.24	16	58.7	37	11.14	14	22.7	14	55.70	14	23.4	31
27	33.85	23	67.9	7	10.40	23	55.0	36	11.28	18	21.3	17	55.84	19	20.3	32
Nov. 6	34.08	29	67.2	4	10.63	31	51.4	36	11.46	23	19.6	19	56.03	24	17.1	32
16	34.37	33	66.8	1	10.94	36	47.8	33	11.69	26	17.7	20	56.27	30	13.9	32
26	34.70	37	66.9	5	11.30	42	44.5	30	11.95	30	15.7	22	56.57	33	10.7	29
Dez. 6	35.07	40	67.4	10	11.72	47	41.5	27	12.25	32	13.5	23	56.90	37	7.8	27
16	35.47	41	68.4	15	12.19	50	38.8	21	12.57	34	11.2	22	57.27	39	5.1	24
26	35.88	42	69.9	19	12.69	52	36.7	17	12.91	34	9.0	22	57.66	40	2.7	19
36	36.30		71.8		13.21		35.0		13.25		6.8		58.06		0.8	
Mittl. Ort	33.44		62.0		9.69		74.3		10.21		31.5		54.81		36.3	
	482)				483)				484)				485)			

1912	8 Draconis. $5^m.2$.				ε Virginis. $2^m.8$.				ϑ Virginis. $4^m.3$.				43 Comae. $4^m.2$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	$12^h\ 51^m$		65° 54′		$12^h\ 57^m$		11° 25′		$13^h\ 5^m$		5° 4′		$13^h\ 7^m$		28° 18′	
Jan. 1	59.13	66	38.4	11	47.34	34	50.3	21	22.89	34	9.2	21	45.74	37	75.9	20
11	59.79	65	37.3	5	47.68	34	48.2	19	23.23	33	11.3	21	46.11	36	73.9	15
21	60.44	62	36.8	1	48.02	31	46.3	16	23.56	32	13.4	20	46.47	34	72.4	11
31	61.06	57	36.9	8	48.33	29	44.7	12	23.88	28	15.4	18	46.81	32	71.3	7
Febr. 10	61.63	49	37.7	14	48.62	25	43.5	9	24.16	26	17.2	16	47.13	28	70.6	1
20	62.12	42	39.1	19	48.87	22	42.6	5	24.42	22	18.8	13	47.41	24	70.5	3
März 1	62.54	33	41.0	23	49.09	18	42.1	2	24.64	18	20.1	11	47.65	20	70.8	7
11	62.87	22	43.3	26	49.27	14	41.9	2	24.82	15	21.2	8	47.85	16	71.5	11
21	63.09	13	45.9	28	49.41	10	42.1	4	24.97	11	22.0	6	48.01	11	72.6	13
31	63.22	3	48.7	29	49.51	7	42.5	6	25.08	8	22.6	3	48.12	8	73.9	16
April 10	63.25	6	51.6	29	49.58	3	43.1	8	25.16	5	22.9	2	48.20	3	75.5	17
20	63.19	15	54.5	27	49.61	1	43.9	9	25.21	2	23.1	0	48.23	0	77.2	18
30	63.04	22	57.2	25	49.62	2	44.8	10	25.23	1	23.1	2	48.23	3	79.0	18
Mai 10	62.82	27	59.7	21	49.60	4	45.8	10	25.22	2	22.9	3	48.20	6	80.8	17
20	62.55	33	61.8	17	49.56	5	46.8	10	25.20	4	22.6	4	48.14	7	82.5	15
30	62.22	36	63.5	13	49.51	8	47.8	9	25.16	6	22.2	4	48.07	10	84.0	13
Juni 9	61.86	39	64.8	8	49.43	8	48.7	8	25.10	8	21.8	5	47.97	11	85.3	11
19	61.47	41	65.6	3	49.35	9	49.5	7	25.02	8	21.3	6	47.86	12	86.4	8
29	61.06	41	65.9	3	49.26	10	50.2	6	24.94	9	20.7	5	47.74	12	87.2	6
Juli 9	60.65	40	65.6	7	49.16	10	50.8	4	24.85	10	20.2	6	47.62	13	87.8	2
19	60.25	38	64.9	13	49.06	11	51.2	2	24.75	10	19.6	5	47.49	14	88.0	1
29	59.87	35	63.6	17	48.95	10	51.4	0	24.65	10	19.1	5	47.35	12	87.9	4
Aug. 8	59.52	32	61.9	22	48.85	8	51.4	1	24.55	9	18.6	4	47.23	12	87.5	8
18	59.20	27	59.7	26	48.77	8	51.3	4	24.46	8	18.2	4	47.11	10	86.7	10
28	58.93	21	57.1	29	48.69	5	50.9	6	24.38	6	17.8	2	47.01	8	85.7	14
Sept. 7	58.72	16	54.2	33	48.64	3	50.3	8	24.32	3	17.6	0	46.93	5	84.3	17
17	58.56	8	50.9	35	48.61	0	49.5	11	24.29	0	17.6	1	46.88	2	82.6	19
27	58.48	0	47.4	37	48.61	4	48.4	13	24.29	4	17.7	3	46.86	2	80.7	23
Okt. 7	58.48	10	43.7	41	48.65	9	47.1	18	24.33	8	18.0	6	46.88	7	78.4	26
17	58.58	18	39.6	39	48.74	13	45.3	18	24.41	13	18.6	9	46.95	12	75.8	27
27	58.76	28	35.7	37	48.87	18	43.5	20	24.54	17	19.5	11	47.07	16	73.1	28
Nov. 6	59.04	36	32.0	36	49.05	22	41.5	22	24.71	22	20.6	14	47.23	22	70.3	29
16	59.40	45	28.4	34	49.27	26	39.3	24	24.93	26	22.0	17	47.45	26	67.4	29
26	59.85	52	25.0	30	49.53	29	36.9	24	25.19	29	23.7	18	47.71	30	64.5	29
Dez. 6	60.37	59	22.0	26	49.82	32	34.5	24	25.48	32	25.5	20	48.01	33	61.6	27
16	60.96	62	19.4	20	50.14	34	32.1	24	25.80	34	27.5	21	48.34	35	58.9	24
26	61.58	65	17.4	15	50.48	34	29.7	22	26.14	34	29.6	22	48.69	37	56.5	22
36	62.23		15.9		50.82		27.5		26.48		31.8		49.06		54.3	
Mittl. Ort	58.56		56.6		47.78		54.9		23.53		10.0		46.08		86.3	
	486)				488)				490)				492)			

1912	γ Hydrae. $3^m.1$. AR.		Dekl. −		ι Centauri. $2^m.9$. AR.		Dekl. −		ζ Urs. maj. pr. $2^m.2$. AR.		Dekl. +		α Virginis. $1^m.1$. AR.		Dekl. −	
	$13^h 14^m$		22° 42′		$13^h 15^m$		36° 14′		$13^h 20^m$		55° 22′		$13^h 20^m$		10° 42′	
	s		″		s		″		s		″		s		″	
Jan. 1	7.19	36	20.7	20	37.59	40	43.4	18	23.00	50	47.6	17	32.51	34	6.0	21
11	7.55	36	22.7	21	37.99	39	45.2	21	23.50	50	45.9	11	32.85	34	8.1	21
21	7.91	33	24.8	23	38.38	37	47.3	23	24.00	48	44.8	5	33.19	33	10.2	20
31	8.24	31	27.1	22	38.75	34	49.6	25	24.48	45	44.3	1	33.52	30	12.2	19
Febr. 10	8.55	28	29.3	22	39.09	30	52.1	25	24.93	41	44.4	8	33.82	27	14.1	18
20	8.83	24	31.5	21	39.39	27	54.6	26	25.34	35	45.2	13	34.09	23	15.9	16
März 1	9.07	20	33.6	19	39.66	22	57.2	25	25.69	29	46.5	17	34.32	20	17.5	13
11	9.27	17	35.5	18	39.88	18	59.7	24	25.98	23	48.2	22	34.52	16	18.8	12
21	9.44	12	37.3	16	40.06	14	62.1	23	26.21	16	50.4	25	34.68	13	20.0	9
31	9.56	10	38.9	14	40.20	10	64.4	22	26.37	9	52.9	27	34.81	10	20.9	6
April 10	9.66	6	40.3	12	40.30	7	66.6	20	26.46	2	55.6	27	34.91	6	21.5	5
20	9.72	3	41.5	10	40.37	3	68.6	18	26.48	4	58.3	27	34.97	4	22.0	3
30	9.75	0	42.5	8	40.40	0	70.4	15	26.44	9	61.0	25	35.01	1	22.3	1
Mai 10	9.75	2	43.3	6	40.40	4	71.9	13	26.35	14	63.5	23	35.02	1	22.4	0
20	9.73	4	43.9	4	40.36	5	73.2	10	26.21	17	65.8	20	35.01	3	22.4	1
30	9.69	6	44.3	2	40.31	8	74.2	7	26.04	21	67.8	17	34.98	6	22.3	3
Juni 9	9.63	8	44.5	1	40.23	10	74.9	5	25.83	24	69.5	12	34.92	6	22.0	3
19	9.55	10	44.4	2	40.13	13	75.4	1	25.59	25	70.7	8	34.86	9	21.7	4
29	9.45	10	44.2	3	40.00	13	75.5	1	25.34	27	71.5	3	34.77	9	21.3	5
Juli 9	9.35	11	43.9	6	39.87	15	75.4	5	25.07	27	71.8	2	34.68	10	20.8	6
19	9.24	12	43.3	7	39.72	15	74.9	7	24.80	26	71.6	6	34.58	11	20.2	6
29	9.12	12	42.6	8	39.57	15	74.2	10	24.54	26	71.0	11	34.47	10	19.6	6
Aug. 8	9.00	11	41.8	9	39.42	14	73.2	11	24.28	24	69.9	16	34.37	11	19.0	5
18	8.89	10	40.9	9	39.28	13	72.1	14	24.04	21	68.3	20	34.26	9	18.5	6
28	8.79	7	40.0	10	39.15	9	70.7	15	23.83	18	66.3	24	34.17	7	17.9	4
Sept. 7	8.72	5	39.0	10	39.06	7	69.2	15	23.65	14	63.9	28	34.10	5	17.5	4
17	8.67	1	38.0	8	38.99	3	67.7	16	23.51	10	61.1	31	34.05	1	17.1	2
27	8.66	3	37.2	7	38.96	2	66.1	14	23.41	3	58.0	34	34.04	2	16.9	0
Okt. 7	8.69	8	36.5	6	38.98	9	64.7	14	23.38	4	54.6	39	34.06	7	16.9	3
17	8.77	13	35.9	2	39.07	14	63.3	10	23.42	10	50.7	36	34.13	11	17.2	4
27	8.90	18	35.7	1	39.21	19	62.3	7	23.52	17	47.1	37	34.24	17	17.6	8
Nov. 6	9.08	23	35.8	4	39.40	25	61.6	4	23.69	24	43.4	37	34.41	21	18.4	10
16	9.31	27	36.2	7	39.65	30	61.2	0	23.93	31	39.7	35	34.62	25	19.4	14
26	9.58	31	36.9	11	39.95	35	61.2	5	24.24	37	36.2	33	34.87	29	20.8	15
Dez. 6	9.89	34	38.0	14	40.30	37	61.7	9	24.61	43	32.9	29	35.16	32	22.3	18
16	10.23	35	39.4	17	40.67	39	62.6	13	25.04	46	30.0	25	35.48	33	24.1	20
26	10.58	37	41.1	19	41.06	40	63.9	16	25.50	49	27.5	20	35.81	35	26.1	21
36	10.95		43.0		41.46		65.5		25.99		25.5		36.16		28.2	
Mittl. Ort	8.08		27.3		38.70		54.3		23.09		64.9		33.30		8.3	
	495)				496)				497)				498)			

1912	Gr. 2001. $6^m.2$. AR.		Dekl. +		69 H.Urs. maj. $5^m.5$. AR.		Dekl. +		ζ Virginis. $3^m.3$. AR.		Dekl. −		17 H.can.ven. $4^m.9$. AR.		Dekl. +	
	$13^h 23^m$		72° 50′		$13^h 25^m$		60° 23′		$13^h 30^m$		0° 8′		$13^h 30^m$		37° 37′	
Jan. 1	53.74	85	34.2	15	13.39	55	42.1	17	11.74	34	48.6	21	51.72	39	45.0	21
11	54.59	85	32.7	7	13.94	55	40.4	11	12.08	33	50.7	20	52.11	39	42.9	16
21	55.44	84	32.0	1	14.49	54	39.3	3	12.41	32	52.7	19	52.50	38	41.3	11
31	56.28	79	31.9	6	15.03	51	39.0	2	12.73	30	54.6	17	52.88	35	40.2	5
Febr. 10	57.07	71	32.5	12	15.54	46	39.2	8	13.03	27	56.3	13	53.23	32	39.7	0
20	57.78	62	33.7	18	16.00	40	40.0	15	13.30	24	57.6	11	53.55	29	39.7	6
März 1	58.40	50	35.5	22	16.40	33	41.5	19	13.54	21	58.7	8	53.84	24	40.3	10
11	58.90	38	37.7	26	16.73	26	43.4	23	13.75	17	59.5	6	54.08	19	41.3	15
21	59.28	24	40.3	29	16.99	18	45.7	26	13.92	13	60.1	2	54.27	14	42.8	17
31	59.52	11	43.2	30	17.17	10	48.3	28	14.05	11	60.3	0	54.41	10	44.5	20
April 10	59.63	2	46.2	30	17.27	2	51.1	28	14.16	6	60.3	1	54.51	6	46.5	22
20	59.61	15	49.2	30	17.29	5	53.9	28	14.22	5	60.2	4	54.57	1	48.7	22
30	59.46	26	52.2	27	17.24	11	56.7	27	14.27	1	59.8	4	54.58	2	50.9	21
Mai 10	59.20	36	54.9	24	17.13	17	59.4	24	14.28	0	59.4	6	54.56	5	53.0	21
20	58.84	44	57.3	20	16.96	22	61.8	21	14.28	3	58.8	6	54.51	8	55.1	19
30	58.40	51	59.3	16	16.74	26	63.9	17	14.25	5	58.2	6	54.43	11	57.0	16
Juni 9	57.89	57	60.9	11	16.48	29	65.6	12	14.20	6	57.6	7	54.32	13	58.6	13
19	57.32	60	62.0	6	16.19	30	66.8	8	14.14	8	56.9	6	54.19	14	59.9	10
29	56.72	63	62.6	1	15.89	33	67.6	3	14.06	9	56.3	6	54.05	16	60.9	6
Juli 9	56.09	62	62.7	6	15.56	33	67.9	2	13.97	10	55.7	5	53.89	16	61.5	2
19	55.47	62	62.1	10	15.23	33	67.7	7	13.87	11	55.2	5	53.73	17	61.7	1
29	54.85	59	61.1	15	14.90	31	67.0	12	13.76	11	54.7	4	53.56	16	61.6	6
Aug. 8	54.26	55	59.6	20	14.59	30	65.8	17	13.65	10	54.3	2	53.40	15	61.0	9
18	53.71	50	57.6	25	14.29	27	64.1	21	13.55	10	54.1	2	53.25	14	60.1	13
28	53.21	43	55.1	28	14.02	22	62.0	26	13.45	7	53.9	0	53.11	12	58.8	17
Sept. 7	52.78	35	52.3	33	13.80	19	59.4	29	13.38	6	53.9	2	52.99	9	57.1	20
17	52.43	25	49.0	35	13.61	13	56.5	32	13.32	2	54.1	4	52.90	6	55.1	24
27	52.18	15	45.5	37	13.48	6	53.3	34	13.30	1	54.5	6	52.84	2	52.7	26
Okt. 7	52.03	4	41.8	42	13.42	1	49.9	40	13.31	5	55.1	8	52.82	3	50.1	29
17	[15] 51.99	11	37.6	40	[16] 13.43	9	45.9	38	[17] 13.36	10	55.9	12	[17] 52.85	10	47.2	33
27	52.10	23	33.6	39	13.52	17	42.1	38	13.46	15	57.1	14	52.95	14	43.9	32
Nov. 6	52.33	35	29.7	38	13.69	26	38.3	38	13.61	19	58.5	16	53.09	20	40.7	33
16	52.68	47	25.9	35	13.95	33	34.5	36	13.80	24	60.1	19	53.29	25	37.4	33
26	53.15	58	22.4	32	14.28	40	30.9	33	14.04	27	62.0	20	53.54	29	34.1	31
Dez. 6	53.73	69	19.2	28	14.68	46	27.6	29	14.31	31	64.0	21	53.83	34	31.0	30
16	54.42	77	16.4	23	15.14	51	24.7	25	14.62	33	66.1	21	54.17	36	28.0	27
26	55.19	82	14.1	18	15.65	54	22.2	20	14.95	33	68.2	22	54.53	38	25.3	23
36	56.01		12.3		16.19		20.2		15.28		70.4		54.91		23.0	
Mittl. Ort	53.34		53.8		13.43		60.3		12.48		46.8		52.13		58.6	
	499)				500)				501)				502)			

1912	ε Centauri. 2ᵐ.4. AR.		Dekl. —		τ Bootis. 4ᵐ.5. AR.		Dekl. +		η Ursae maj. 1ᵐ.8. AR.		Dekl. +		89 Virginis. 5ᵐ.2. AR.		Dekl. —	
	13ʰ 34ᵐ		53° 0′		13ʰ 43ᵐ		17° 53′		13ʰ 44ᵐ		49° 44′		13ʰ 45ᵐ		17° 41′	
Jan. 1	16ˢ.53	50	55″.6	17	4ˢ.16	35	33″.7	23	4ˢ.10	44	51″.1	21	4ˢ.23	36	42″.4	19
11	17.03	49	57.3	21	4.51	34	31.4	19	4.54	45	49.0	15	4.59	35	44.3	20
21	17.52	48	59.4	24	4.85	33	29.5	16	4.99	44	47.5	9	4.94	33	46.3	21
31	18.00	44	61.8	26	5.18	32	27.9	12	5.43	42	46.6	2	5.27	32	48.4	19
Febr. 10	18.44	40	64.4	29	5.50	29	26.7	7	5.85	38	46.4	3	5.59	30	50.3	19
20	18.84	36	67.3	30	5.79	25	26.0	4	6.23	34	46.7	9	5.89	25	52.2	18
März 1	19.20	31	70.3	30	6.04	22	25.6	1	6.57	30	47.6	14	6.14	23	54.0	17
11	19.51	25	73.3	30	6.26	19	25.7	4	6.87	23	49.0	19	6.37	19	55.7	14
21	19.76	21	76.3	30	6.45	14	26.1	8	7.10	18	50.9	22	6.56	16	57.1	12
31	19.97	15	79.3	28	6.59	11	26.9	11	7.28	12	53.1	25	6.72	13	58.3	11
April 10	20.12	10	82.1	26	6.70	8	28.0	12	7.40	6	55.6	26	6.85	9	59.4	8
20	20.22	5	84.7	24	6.78	4	29.2	13	7.46	2	58.2	26	6.94	6	60.2	7
30	20.27	1	87.1	22	6.82	2	30.5	14	7.48	4	60.8	26	7.00	4	60.9	6
Mai 10	20.28	4	89.3	18	6.84	1	31.9	15	7.44	8	63.4	24	7.04	1	61.5	3
20	20.24	7	91.1	15	6.83	4	33.4	13	7.36	12	65.8	21	7.05	2	61.8	2
30	20.17	12	92.6	12	6.79	5	34.7	13	7.24	16	67.9	19	7.03	3	62.0	0
Juni 9	20.05	15	93.8	8	6.74	8	36.0	11	7.08	18	69.8	15	7.00	7	62.0	0
19	19.90	19	94.6	4	6.66	9	37.1	10	6.90	20	71.3	11	6.93	7	62.0	2
29	19.71	20	95.0	1	6.57	10	38.1	7	6.70	22	72.4	6	6.86	10	61.8	4
Juli 9	19.51	23	95.1	4	6.47	12	38.8	6	6.48	23	73.0	2	6.76	10	61.4	4
19	19.28	24	94.7	8	6.35	12	39.4	2	6.25	23	73.2	2	6.66	12	61.0	6
29	19.04	23	93.9	11	6.23	13	39.6	0	6.02	23	73.0	7	6.54	12	60.4	6
Aug. 8	18.81	23	92.8	14	6.10	12	39.6	2	5.79	23	72.3	12	6.42	12	59.8	7
18	18.58	21	91.4	17	5.98	11	39.4	5	5.56	20	71.1	16	6.30	10	59.1	7
28	18.37	18	89.7	20	5.87	10	38.9	8	5.36	18	69.5	21	6.20	10	58.4	7
Sept. 7	18.19	13	87.7	21	5.77	7	38.1	11	5.18	16	67.4	24	6.10	7	57.7	6
17	18.06	8	85.6	21	5.70	5	37.0	13	5.02	10	65.0	28	6.03	4	57.1	6
27	17.98	2	83.5	21	5.65	1	35.7	16	4.92	6	62.2	30	5.99	0	56.5	4
Okt. 7	17.96	6	81.4	20	5.64	3	34.1	19	4.86	1	59.2	33	5.99	4	56.1	2
17	18.02	14	79.4	19	5.67	8	32.2	23	4.85	6	55.9	39	6.03	10	55.9	0
27	18 18.16	21	77.5	15	21 5.75	13	29.9	24	21 4.91	13	52.0	36	21 6.13	14	55.9	3
Nov. 6	18.37	29	76.0	10	5.88	18	27.5	25	5.04	19	48.4	36	6.27	20	56.2	5
16	18.66	36	75.0	6	6.06	22	25.0	26	5.23	25	44.8	36	6.47	24	56.7	9
26	19.02	41	74.4	1	6.28	26	22.4	27	5.48	32	41.2	34	6.71	28	57.6	12
Dez. 6	19.43	46	74.3	5	6.54	30	19.7	26	5.80	36	37.8	31	6.99	31	58.8	14
16	19.89	48	74.8	9	6.84	32	17.1	25	6.16	40	34.7	27	7.30	34	60.2	17
26	20.37	51	75.7	14	7.16	34	14.6	24	6.56	44	32.0	24	7.64	35	61.9	18
36	20.88		77.1		7.50		12.2		7.00		29.6		7.99		63.7	
Mittl. Ort	18.22		69.7		4.82		41.9		4.49		67.8		5.25		46.1	
	504)				507)				509)				510)			

1912	ζ Centauri. $2^m.6$ AR.	Δ	Dekl. −	Δ	η Bootis. $2^m.8$ AR.	Δ	Dekl. +	Δ	τ Virginis. $4^m.2$ AR.	Δ	Dekl. +	Δ	11 Bootis. $6^m.3$ AR.	Δ	Dekl. +	Δ
	$13^h\ 50^m$		46° 51′		$13^h\ 50^m$		18° 49′		$13^h\ 57^m$		1° 57′		$13^h\ 57^m$		27° 48′	
Jan. 1	0.95	45	8.0	12	28.98	35	69.8	23	9.14	33	68.4	22	10.44	35	28.9	23
11	1.40	46	9.2	16	29.33	34	67.5	20	9.47	34	66.2	20	10.79	36	26.6	19
21	1.86	44	10.8	20	29.67	34	65.5	16	9.81	33	64.2	18	11.15	35	24.7	15
31	2.30	42	12.8	22	30.01	32	63.9	11	10.14	31	62.4	16	11.50	34	23.2	9
Febr. 10	2.72	37	15.0	24	30.33	29	62.8	8	10.45	28	60.8	14	11.84	31	22.3	5
20	3.09	34	17.4	26	30.62	27	62.0	3	10.73	26	59.4	10	12.15	28	21.8	0
März 1	3.43	30	20.0	27	30.89	23	61.7	0	10.99	23	58.4	7	12.43	24	21.8	4
11	3.73	25	22.7	27	31.12	19	61.7	5	11.22	19	57.7	4	12.67	21	22.2	9
21	3.98	21	25.4	26	31.31	15	62.2	8	11.41	17	57.3	1	12.88	16	23.1	13
31	4.19	17	28.0	26	31.46	12	63.0	11	11.58	13	57.2	1	13.04	13	24.4	15
April 10	4.36	12	30.6	25	31.58	8	64.1	12	11.71	10	57.3	4	13.17	9	25.9	18
20	4.48	8	33.1	23	31.66	5	65.3	14	11.81	6	57.7	5	13.26	5	27.7	18
30	4.56	3	35.4	21	31.71	3	66.7	15	11.87	4	58.2	6	13.31	2	29.5	19
Mai 10	4.59	0	37.5	19	31.74	1	68.2	15	11.91	2	58.8	7	13.33	1	31.4	19
20	4.59	4	39.4	17	31.73	3	69.7	14	11.93	1	59.5	8	13.32	3	33.3	18
30	4.55	7	40.1	13	31.70	5	71.1	13	11.92	3	60.3	8	13.29	7	35.1	16
Juni 9	4.48	11	42.4	11	31.65	7	72.4	12	11.89	5	61.1	7	13.22	9	36.7	14
19	4.37	14	43.5	7	31.58	9	73.6	10	11.84	8	61.8	7	13.13	10	38.1	11
29	4.23	16	44.2	4	31.49	10	74.6	8	11.76	8	62.5	6	13.03	12	39.2	9
Juli 9	4.07	18	44.6	0	31.39	12	75.4	5	11.68	10	63.1	6	12.91	14	40.1	6
19	3.89	20	44.6	4	31.27	12	75.9	3	11.58	11	63.7	5	12.77	14	40.7	2
29	3.69	20	44.2	7	31.15	13	76.2	0	11.47	11	64.2	4	12.63	15	40.9	1
Aug. 8	3.49	20	43.5	10	31.02	13	76.2	2	11.36	12	64.6	2	12.48	14	40.8	5
18	3.29	19	42.5	13	30.89	12	76.0	6	11.24	11	64.8	0	12.34	14	40.3	8
28	3.10	16	41.2	16	30.77	10	75.4	8	11.13	9	64.8	0	12.20	12	39.5	11
Sept. 7	2.94	12	39.6	17	30.67	8	74.6	11	11.04	8	64.8	3	12.08	10	38.4	15
17	2.82	8	37.9	19	30.59	6	73.5	13	10.96	5	64.5	5	11.98	7	36.9	18
27	2.74	3	36.0	18	30.53	2	72.2	17	10.91	2	64.0	7	11.91	4	35.1	20
Okt. 7	2.71	3	34.2	19	30.51	3	70.5	20	10.89	3	63.3	9	11.87	1	33.1	24
17	2.74	11	32.3	18	30.54	7	68.5	23	10.92	7	62.4	13	11.88	6	30.7	28
27	2.85	18	30.5	14	30.61	12	66.2	24	10.99	12	61.1	14	11.94	11	27.9	28
Nov. 6	3.03	24	29.1	11	30.73	17	63.8	25	11.11	17	59.7	17	12.05	16	25.1	30
16	3.27	31	28.0	8	30.90	22	61.3	27	11.28	21	58.0	19	12.21	21	22.1	30
26	3.58	36	27.2	3	31.12	26	58.6	27	11.49	26	56.1	20	12.42	26	19.1	30
Dez. 6	3.94	40	26.9	1	31.38	29	55.9	27	11.75	28	54.1	22	12.68	29	16.1	29
16	4.34	44	27.0	6	31.67	32	53.2	26	12.03	32	51.9	22	12.97	33	13.2	27
26	4.78	45	27.6	10	31.99	34	50.6	24	12.35	33	49.7	22	13.30	35	10.5	25
36	5.23		28.6		32.33		48.2		12.68		47.5		13.65		8.0	
Mittl. Ort	2.57		20.1		29.68		78.5		10.02		71.8		11.11		40.5	
	512)				513)				516)				517)			

1912	β Centauri. 1m.				ϑ Centauri. 2m.1.				α Draconis. 3m.4.				d Bootis. 4m.9.			
	AR.		Dekl. −		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	13h 57m		59° 56′		14h 1m		35° 56′		14h 1m		64° 47′		14h 6m		25° 29′	
Jan. 1	33.91	58	41.9	8	28.48	40	6.4	14	59.92	59	27.1	20	22.42	35	78.2	24
11	34.49	59	42.7	13	28.88	40	7.8	17	60.51	61	25.1	14	22.77	35	75.8	20
21	35.08	56	44.0	17	29.28	38	9.5	19	61.12	61	23.7	8	23.12	35	73.8	15
31	35.64	55	45.7	21	29.66	37	11.4	21	61.73	60	22.9	1	23.47	34	72.3	11
Febr. 10	36.19	50	47.8	24	30.03	34	13.5	22	62.33	55	22.8	6	23.81	31	71.2	6
20	36.69	45	50.2	27	30.37	31	15.7	23	62.88	50	23.4	11	24.12	28	70.6	2
März 1	37.14	40	52.9	29	30.68	28	18.0	22	63.38	43	24.5	18	24.40	25	70.4	4
11	37.54	34	55.8	30	30.96	23	20.2	22	63.81	35	26.3	22	24.65	21	70.8	7
21	37.88	28	58.8	30	31.19	20	22.4	22	64.16	27	28.5	26	24.86	17	71.5	11
31	38.16	22	61.8	31	31.39	16	24.6	20	64.43	18	31.1	28	25.03	14	72.6	14
April 10	38.38	16	64.9	31	31.55	12	26.6	19	64.61	9	33.9	29	25.17	10	74.0	17
20	38.54	10	68.0	29	31.67	9	28.5	17	64.70	0	36.8	30	25.27	6	75.7	18
30	38.64	4	70.9	27	31.76	6	30.2	16	64.70	8	39.8	29	25.33	3	77.5	18
Mai 10	38.68	1	73.6	25	31.82	2	31.8	14	64.62	15	42.7	27	25.36	0	79.3	18
20	38.67	7	76.1	23	31.84	1	33.2	12	64.47	22	45.4	25	25.36	3	81.1	18
30	38.60	13	78.4	19	31.83	4	34.4	9	64.25	28	47.9	20	25.33	5	82.9	16
Juni 9	38.47	17	80.3	16	31.79	7	35.3	7	63.97	33	49.9	17	25.28	7	84.5	14
19	38.30	22	81.9	12	31.72	10	36.0	4	63.64	36	51.6	12	25.21	10	85.9	12
29	38.08	25	83.1	8	31.62	11	36.4	2	63.28	39	52.8	7	25.11	12	87.1	9
Juli 9	37.83	28	83.9	3	31.51	14	36.6	1	62.89	42	53.5	2	24.99	12	88.0	6
19	37.55	30	84.2	0	31.37	15	36.5	4	62.47	42	53.7	4	24.87	14	88.6	3
29	37.25	31	84.2	6	31.22	16	36.1	5	62.05	42	53.3	8	24.73	15	88.9	0
Aug. 8	36.94	31	83.6	10	31.06	16	35.6	9	61.63	41	52.5	14	24.58	14	88.9	3
18	36.63	29	82.6	14	30.90	16	34.7	11	61.22	39	51.1	18	24.44	14	88.6	7
28	36.34	25	81.2	17	30.74	13	33.6	12	60.83	35	49.3	23	24.30	12	87.9	10
Sept. 7	36.09	20	79.5	20	30.61	11	32.4	12	60.48	30	47.0	27	24.18	11	86.9	13
17	35.89	15	77.5	21	30.50	7	31.2	14	60.18	25	44.3	31	24.07	8	85.6	16
27	35.74	7	75.4	24	30.43	3	29.8	14	59.93	17	41.2	34	23.99	4	84.0	19
Okt. 7	35.67	1	73.0	23	30.40	2	28.4	12	59.76	10	37.8	36	23.95	0	82.1	23
17	35.68	12	70.7	25	30.42	9	27.2	12	59.66	1	34.2	42	23.95	4	79.8	25
27	35.80	20	68.2	21	30.51	14	26.0	9	59.65	9	30.0	39	23.99	11	77.3	28
Nov. 6	36.00	29	66.1	18	30.65	20	25.1	6	59.74	18	26.1	39	24.10	15	74.5	29
16	36.29	38	64.3	14	30.85	26	24.5	2	59.92	28	22.2	37	24.25	20	71.6	30
26	36.67	45	62.9	10	31.11	31	24.3	2	60.20	37	18.5	36	24.45	25	68.6	29
Dez. 6	37.12	50	61.9	5	31.42	34	24.5	5	60.57	45	14.9	32	24.70	28	65.7	29
16	37.62	56	61.4	1	31.76	38	25.0	9	61.02	51	11.7	29	24.98	32	62.8	27
26	38.18	58	61.5	5	32.14	40	25.9	13	61.53	57	8.8	23	25.30	34	60.1	25
36	38.76		62.0		32.54		27.2		62.10		6.5		25.64		57.6	
Mittl. Ort	36.19		56.4		29.90		15.0		60.36		46.4		23.17		89.3	
	518)				520)				521)				522)			

1912	κ Virginis. $4^m.2$. AR.		Dekl. −		4 Ursae min. $5^m.0$. AR.		Dekl. +	
	$14^h 8^m$		9° 51′		$14^h 9^m$		77° 56′	
Jan. 1	10.91	35	52.2	20	9.95	105	79.3	18
11	11.26	33	54.2	19	11.00	112	77.5	13
21	11.59	33	56.1	19	12.12	114	76.2	5
31	11.92	32	58.0	18	13.26	112	75.7	1
Febr. 10	12.24	30	59.8	16	14.38	105	75.8	7
20	12.54	27	61.4	15	15.43	96	76.5	14
März 1	12.81	23	62.9	12	16.39	83	77.9	19
11	13.04	21	64.1	10	17.22	67	79.8	24
21	13.25	18	65.1	7	17.89	50	82.2	27
31	13.43	14	65.8	5	18.39	31	84.9	30
April 10	13.57	12	66.3	4	18.70	13	87.9	31
20	13.69	8	66.7	2	18.83	6	91.0	31
30	13.77	6	66.9	0	18.77	25	94.1	29
Mai 10	13.83	3	66.9	1	18.52	40	97.0	28
20	13.86	0	66.8	2	18.12	55	99.8	24
30	13.86	2	66.6	3	17.57	67	102.2	20
Juni 9	13.84	4	66.3	4	16.90	79	104.2	16
19	13.80	6	65.9	4	16.11	87	105.8	11
29	13.74	9	65.5	4	15.24	93	106.9	6
Juli 9	13.65	10	65.1	5	14.31	96	107.5	0
19	13.55	11	64.6	5	13.35	98	107.5	5
29	13.44	11	64.1	5	12.37	98	107.0	10
Aug. 8	13.33	12	63.6	5	11.39	95	106.0	16
18	13.21	12	63.1	4	10.44	89	104.4	20
28	13.09	10	62.7	4	9.55	82	102.4	25
Sept. 7	12.99	9	62.3	2	8.73	72	99.9	28
17	12.90	6	62.1	2	8.01	61	97.1	33
27	12.84	2	61.9	1	7.40	47	93.8	35
Okt. 7	12.82	2	62.0	2	6.93	32	90.3	37
17	12.84	6	62.2	4	6.61	16	86.6	39
27	12.90	12	62.6	7	6.45	4	82.7	43
Nov. 6	13.02	17	63.3	10	6.49	22	78.4	39
16	13.19	21	64.3	12	6.71	41	74.5	38
26	13.40	25	65.5	15	7.12	59	70.7	35
Dez. 6	13.65	29	67.0	16	7.71	75	67.2	31
16	13.94	32	68.6	18	8.46	89	64.1	28
26	14.26	33	70.4	19	9.35	101	61.3	21
36	14.59		72.3		10.36		59.2	
Mittl. Ort	11.96		52.4		10.41		99.7	
	523)				524)			

1912	ι Virginis. $4^m.0$. AR.		Dekl. −		α Bootis. 1^m. AR.		Dekl. +	
	$14^h 11^m$		5° 34′		$14^h 11^m$		19° 37′	
Jan. 1	22.85	33	53.3	20	38.01	34	75.1	24
11	23.18	34	55.3	20	38.35	34	72.7	21
21	23.52	33	57.3	19	38.69	34	70.6	17
31	23.85	31	59.2	17	39.03	32	68.9	13
Febr. 10	24.16	30	60.9	15	39.35	30	67.6	9
20	24.46	27	62.4	13	39.65	28	66.7	4
März 1	24.73	24	63.7	10	39.93	24	66.3	0
11	24.97	21	64.7	8	40.17	21	66.3	4
21	25.18	17	65.5	6	40.38	17	66.7	8
31	25.35	15	66.1	3	40.55	14	67.5	10
April 10	25.50	11	66.4	0	40.69	10	68.5	13
20	25.61	9	66.4	0	40.79	7	69.8	15
30	25.70	6	66.4	2	40.86	5	71.3	15
Mai 10	25.76	3	66.2	4	40.91	1	72.8	16
20	25.79	0	65.8	4	40.92	2	74.4	15
30	25.79	1	65.4	4	40.90	4	75.9	14
Juni 9	25.78	4	65.0	5	40.86	7	77.3	12
19	25.74	7	64.5	5	40.79	8	78.5	11
29	25.67	8	64.0	5	40.71	11	79.6	8
Juli 9	25.59	9	63.5	5	40.60	11	80.4	7
19	25.50	11	63.0	5	40.49	13	81.1	3
29	25.39	12	62.5	5	40.36	14	81.4	1
Aug. 8	25.27	12	62.0	3	40.22	14	81.5	2
18	25.15	12	61.7	3	40.08	13	81.3	5
28	25.03	11	61.4	2	39.95	13	80.8	8
Sept. 7	24.92	8	61.2	1	39.82	10	80.0	11
17	24.84	6	61.1	1	39.72	8	78.9	14
27	24.78	3	61.2	3	39.64	4	77.5	17
Okt. 7	24.75	1	61.5	5	39.60	1	75.8	19
17	24.76	6	62.0	7	39.59	4	73.9	22
27	24.82	12	62.7	10	39.63	11	71.7	27
Nov. 6	24.94	16	63.7	12	39.74	14	69.0	26
16	25.10	20	64.9	15	39.88	20	66.4	28
26	25.30	25	66.4	17	40.08	23	63.6	28
Dez. 6	25.55	29	68.1	18	40.31	28	60.8	28
16	25.84	31	69.9	19	40.59	31	58.0	27
26	26.15	33	71.8	20	40.90	32	55.3	25
36	26.48		73.8		41.22		52.8	
Mittl. Ort	23.87		51.9		38.83		84.5	
	525)				526)			

1912	λ Bootis. 4ᵐ.0. AR.		Dekl. +		ϑ Bootis. 3ᵐ.9. AR.		Dekl. +		ρ Bootis. 3ᵐ.7. AR.		Dekl. +		γ Bootis. 2ᵐ.9. AR.		Dekl. +	
	$14^h\ 13^m$		46° 28′		$14^h\ 22^m$		52° 14′		$14^h\ 28^m$		30° 44′		$14^h\ 28^m$		38° 40′	
Jan. 1	1.69	41	74.8	23	11.36	43	68.1	24	1.41	35	73.2	24	31.28	37	79.1	25
11	2.10	42	72.5	18	11.79	45	65.7	18	1.76	36	70.8	21	31.65	38	76.6	21
21	2.52	42	70.7	13	12.24	46	63.9	13	2.12	36	68.7	16	32.03	38	74.5	15
31	2.94	40	69.4	6	12.70	45	62.6	6	2.48	35	67.1	12	32.41	37	73.0	9
Febr. 10	3.34	38	68.8	1	13.15	42	62.0	0	2.83	32	65.9	6	32.78	35	72.1	4
20	3.72	35	68.7	6	13.57	39	62.0	6	3.15	31	65.3	0	33.13	33	71.7	1
März 1	4.07	31	69.3	11	13.96	34	62.6	12	3.46	27	65.3	4	33.46	29	71.8	8
11	4.38	26	70.4	15	14.30	29	63.8	17	3.73	24	65.7	9	33.75	25	72.6	12
21	4.64	20	71.9	20	14.59	24	65.5	22	3.97	20	66.6	14	34.00	21	73.8	16
31	4.84	16	73.9	24	14.83	17	67.7	24	4.17	16	68.0	16	34.21	16	75.4	20
April 10	5.00	10	76.3	25	15.00	12	70.1	27	4.33	12	69.6	19	34.37	13	77.4	22
20	5.10	5	78.8	26	15.12	6	72.8	28	4.45	8	71.5	21	34.50	8	79.6	24
30	5.15	1	81.4	26	15.18	1	75.6	27	4.53	5	73.6	21	34.58	4	82.0	24
Mai 10	5.16	3	84.0	25	15.19	5	78.3	27	4.58	1	75.7	21	34.62	0	84.4	24
20	5.13	8	86.5	24	15.14	9	81.0	25	4.59	2	77.8	21	34.62	4	86.8	23
30	5.05	11	88.9	21	15.05	13	83.5	22	4.57	5	79.9	18	34.58	7	89.1	21
Juni 9	4.94	15	91.0	17	14.92	18	85.7	19	4.52	7	81.7	17	34.51	9	91.2	18
19	4.79	17	92.7	14	14.74	20	87.6	15	4.45	10	83.4	14	34.42	13	93.0	15
29	4.62	19	94.1	10	14.54	23	89.1	10	4.35	13	84.8	11	34.29	15	94.5	12
Juli 9	4.43	21	95.1	6	14.31	26	90.1	6	4.22	14	85.9	8	34.14	17	95.7	8
19	4.22	23	95.7	1	14.05	26	90.7	2	4.08	15	86.7	4	33.97	18	96.5	3
29	3.99	22	95.8	3	13.79	28	90.9	4	3.93	16	87.1	1	33.79	20	96.8	0
Aug. 8	3.77	23	95.5	8	13.51	27	90.5	8	3.77	17	87.2	3	33.59	19	96.8	4
18	3.54	21	94.7	13	13.24	26	89.7	13	3.60	17	86.9	7	33.40	19	96.4	9
28	3.33	20	93.4	16	12.98	25	88.4	18	3.43	15	86.2	10	33.21	18	95.5	13
Sept. 7	3.13	17	91.8	21	12.73	21	86.6	22	3.28	13	85.2	14	33.03	16	94.2	17
17	2.96	14	89.7	24	12.52	18	84.4	25	3.15	11	83.8	17	32.87	13	92.5	20
27	2.82	10	87.3	28	12.34	13	81.9	30	3.04	7	82.1	21	32.74	9	90.5	24
Okt. 7	2.72	4	84.5	31	12.21	8	78.9	32	2.97	4	80.0	24	32.65	5	88.1	27
17	2.68	1	81.4	33	12.13	2	75.7	35	2.93	2	77.6	26	32.60	1	85.4	30
27	2.69	8	78.1	38	12.11	6	72.2	40	2.95	7	75.0	32	32.61	6	82.4	36
Nov. 6	[28] 2.77	16	74.3	36	[31] 12.17	13	68.2	38	[1] 3.02	12	71.8	30	[1] 32.67	12	78.8	33
16	2.93	19	70.7	36	12.30	20	64.4	37	3.14	18	68.8	32	32.79	18	75.5	34
26	3.12	27	67.1	35	12.50	26	60.7	36	3.32	23	65.6	31	32.97	24	72.1	34
Dez. 6	3.39	32	63.6	33	12.76	33	57.1	34	3.55	27	62.5	31	33.21	28	68.7	32
16	3.71	36	60.3	30	13.09	38	53.7	31	3.82	31	59.4	29	33.49	32	65.5	31
26	4.07	39	57.3	25	13.47	42	50.6	26	4.13	34	56.5	27	33.81	36	62.4	27
36	4.46		54.8		13.89		48.0		4.47		53.8		34.17		59.7	
Mittl. Ort	2.36		91.2		12.09		85.7		2.27		86.1		32.10		93.9	
	527)				531)				534)				535)			

1912	η Centauri. 2^m.5 AR.	Δ	η Centauri Dekl. −	Δ	α Centauri. 1^m. AR.	Δ	α Centauri Dekl. −	Δ	α Apodis. 3^m.8 AR.	Δ	α Apodis Dekl. −	Δ	ζ Bootis m. 3^m.6 AR.	Δ	ζ Bootis Dekl. +	Δ
	14h 29m		41° 46′		14h 33m		60° 28′		14h 36m		78° 40′		14h 36m		14° 5′	
	s		″		s		″		s		″		s		″	
Jan. 1	53.06	42	10.1	9	34.10	57	9.6	3	46.19	130	5.8	3	55.76	33	70.5	23
11	53.48	42	11.0	13	34.67	58	9.9	8	47.49	134	5.5	3	56.09	33	68.2	21
21	53.90	43	12.3	16	35.25	59	10.7	12	48.83	135	5.8	8	56.42	33	66.1	18
31	54.33	41	13.9	17	35.84	56	11.9	16	50.18	131	6.6	14	56.75	33	64.3	15
Febr. 10	54.74	38	15.6	21	36.40	53	13.5	20	51.49	127	8.0	18	57.08	30	62.8	10
20	55.12	36	17.7	21	36.93	50	15.5	22	52.76	118	9.8	23	57.38	29	61.8	7
März 1	55.48	32	19.8	22	37.43	45	17.7	26	53.94	108	12.1	26	57.67	26	61.1	2
11	55.80	29	22.0	22	37.88	40	20.3	27	55.02	96	14.7	30	57.93	23	60.9	2
21	56.09	25	24.2	22	38.28	35	23.0	28	55.98	82	17.7	32	58.16	19	61.1	5
31	56.34	20	26.4	22	38.63	28	25.8	28	56.80	68	20.9	33	58.35	17	61.6	8
April 10	56.54	18	28.6	20	38.91	23	28.6	29	57.48	52	24.2	34	58.52	13	62.4	11
20	56.72	13	30.6	20	39.14	16	31.5	29	58.00	35	27.6	35	58.65	10	63.5	12
30	56.85	9	32.6	19	39.30	11	34.4	27	58.35	19	31.1	34	58.75	7	64.7	14
Mai 10	56.94	6	34.5	17	39.41	4	37.1	26	58.54	4	34.5	33	58.82	4	66.1	15
20	57.00	2	36.2	14	39.45	2	39.7	24	58.58	15	37.8	31	58.86	1	67.6	14
30	57.02	2	37.6	13	39.43	8	42.1	21	58.43	29	40.9	28	58.87	1	69.0	14
Juni 9	57.00	5	38.9	11	39.35	13	44.2	19	58.14	46	43.7	26	58.86	4	70.4	12
19	56.95	9	40.0	8	39.22	19	46.1	15	57.68	58	46.3	21	58.82	6	71.6	12
29	56.86	12	40.8	5	39.03	23	47.6	11	57.10	71	48.4	17	58.76	9	72.8	10
Juli 9	56.74	14	41.3	3	38.80	28	48.7	8	56.39	81	50.1	13	58.67	10	73.8	7
19	56.60	17	41.6	1	38.52	31	49.5	2	55.58	88	51.4	7	58.57	12	74.5	6
29	56.43	18	41.5	4	38.21	33	49.7	1	54.70	93	52.1	1	58.45	13	75.1	3
Aug. 8	56.25	18	41.1	6	37.88	34	49.6	6	53.77	94	52.2	3	58.32	14	75.4	1
18	56.07	19	40.5	10	37.54	33	49.0	10	52.83	91	51.9	9	58.18	14	75.5	2
28	55.88	17	39.5	11	37.21	30	48.0	14	51.92	84	51.0	14	58.04	13	75.3	4
Sept. 7	55.71	14	38.4	14	36.91	27	46.6	18	51.08	75	49.6	19	57.91	11	74.9	7
17	55.57	12	37.0	14	36.64	22	44.8	20	50.33	60	47.7	23	57.80	9	74.2	10
27	55.45	6	35.6	16	36.42	14	42.8	22	49.73	44	45.4	26	57.71	6	73.2	13
Okt. 7	55.39	2	34.0	15	36.28	7	40.6	24	49.29	25	42.8	28	57.65	3	71.9	15
17	55.37	5	32.5	14	36.21	2	38.2	23	49.04	3	40.0	28	57.62	2	70.4	18
27	55.42	12	31.1	14	36.23	13	35.9	25	49.01	22	37.2	32	57.64	8	68.6	22
Nov. 6	55.54	18	29.7	11	36.36	22	33.4	20	49.23	45	34.0	27	57.72	12	66.4	23
16	55.72	25	28.6	7	36.58	31	31.4	17	49.68	65	31.3	25	57.84	17	64.1	24
26	55.97	30	27.9	3	36.89	40	29.7	14	50.33	86	28.8	21	58.01	22	61.7	25
Dez. 6	56.27	35	27.6	1	37.29	46	28.3	9	51.19	102	26.7	16	58.23	26	59.2	26
16	56.62	39	27.5	4	37.75	52	27.4	5	52.21	116	25.1	11	58.49	29	56.6	26
26	57.01	41	27.9	8	38.27	56	26.9	0	53.37	127	24.0	6	58.78	32	54.0	24
36	57.42		28.7		38.83		26.9		54.64		23.4		59.10		51.6	
Mittl. Ort	54.81		18.6		36.78		22.0		52.60		20.3		56.76		78.9	
	537)				538)				542)				543)			

1912	μ Virginis. 3ᵐ.9. AR.		Dekl. −		109 Virginis. 3ᵐ.7. AR.		Dekl. +		α Librae. 2ᵐ.7. AR.		Dekl. −		Gr. 2164. 5ᵐ.8. AR.		Dekl. +	
	14ʰ 38ᵐ		5° 16′		14ʰ 41ᵐ		2° 15′		14ʰ 45ᵐ		15° 40′		14ʰ 49ᵐ		59° 38′	
Jan. 1	24ˢ.08	32	36″.8	20	46ˢ.81	32	42″.2	22	59ˢ.12	33	35″.7	16	11ˢ.25	47	45″.8	26
11	24.40	34	38.8	19	47.13	33	40.0	20	59.45	35	37.3	17	11.72	51	43.2	20
21	24.74	33	40.7	18	47.46	33	38.0	18	59.80	34	39.0	17	12.23	51	41.2	14
31	25.07	32	42.5	17	47.79	32	36.2	15	60.14	34	40.7	17	12.74	52	39.8	8
Febr. 10	25.39	31	44.2	14	48.11	31	34.7	13	60.48	32	42.4	16	13.26	51	39.0	1
20	25.70	28	45.6	12	48.42	28	33.4	10	60.80	29	44.0	15	13.77	47	38.9	5
März 1	25.98	26	46.8	10	48.70	26	32.4	7	61.09	27	45.5	13	14.24	42	39.4	12
11	26.24	23	47.8	7	48.96	23	31.7	3	61.36	25	46.8	11	14.66	38	40.6	17
21	26.47	20	48.5	5	49.19	20	31.4	1	61.61	21	47.9	10	15.04	31	42.3	22
31	26.67	17	49.0	2	49.39	17	31.3	2	61.82	19	48.9	7	15.35	24	44.5	26
April 10	26.84	15	49.2	0	49.56	14	31.5	5	62.01	15	49.6	6	15.59	17	47.1	28
20	26.99	11	49.2	1	49.70	11	32.0	6	62.16	13	50.2	5	15.76	10	49.9	30
30	27.10	8	49.1	3	49.81	8	32.6	8	62.29	10	50.7	3	15.86	3	52.9	30
Mai 10	27.18	6	48.8	4	49.89	5	33.4	8	62.39	7	51.0	2	15.89	3	55.9	29
20	27.24	3	48.4	5	49.94	3	34.2	8	62.46	4	51.2	1	15.86	11	58.8	28
30	27.27	0	47.9	5	49.97	0	35.0	9	62.50	1	51.3	1	15.75	15	61.6	25
Juni 9	27.27	3	47.4	5	49.97	3	35.9	9	62.51	2	51.2	0	15.60	21	64.1	21
19	27.24	5	46.9	6	49.94	5	36.8	8	62.49	4	51.2	2	15.39	26	66.2	18
29	27.19	7	46.3	5	49.89	7	37.6	7	62.45	7	51.0	3	15.13	30	68.0	14
Juli 9	27.12	9	45.8	5	49.82	9	38.3	7	62.38	9	50.7	3	14.83	33	69.4	9
19	27.03	10	45.3	5	49.73	11	39.0	5	62.29	11	50.4	4	14.50	35	70.3	3
29	26.93	12	44.8	4	49.62	12	39.5	4	62.18	12	50.0	4	14.15	36	70.6	1
Aug. 8	26.81	13	44.4	4	49.50	13	39.9	3	62.06	14	49.6	4	13.79	37	70.5	7
18	26.68	13	44.0	3	49.37	13	40.2	1	61.92	13	49.2	5	13.42	36	69.8	11
28	26.55	12	43.7	1	49.24	13	40.3	0	61.79	13	48.7	4	13.06	35	68.7	16
Sept. 7	26.43	11	43.6	1	49.11	11	40.3	3	61.66	11	48.3	5	12.71	32	67.1	21
17	26.32	8	43.5	1	49.00	8	40.0	4	61.55	9	47.8	4	12.39	28	65.0	25
27	26.24	5	43.6	3	48.92	6	39.6	7	61.46	6	47.4	2	12.11	23	62.5	29
Okt. 7	26.19	1	43.9	5	48.86	2	38.9	9	61.40	2	47.2	2	11.88	17	59.6	33
17	26.18	3	44.4	7	48.84	3	38.0	11	61.38	2	47.0	1	11.71	9	56.3	35
27	26.21	9	45.1	10	48.87	8	36.9	15	61.40	8	47.1	2	11.62	2	52.8	37
Nov. 6	[4] 26.30	13	46.1	11	[5] 48.95	12	35.4	16	[6] 61.48	14	47.3	5	[7] 11.60	8	49.1	42
16	26.43	18	47.2	14	49.07	17	33.8	18	61.62	18	47.8	8	11.68	15	44.9	39
26	26.61	23	48.6	16	49.24	22	32.0	20	61.80	23	48.6	9	11.83	24	41.0	37
Dez. 6	26.84	27	50.2	18	49.46	26	30.0	21	62.03	27	49.5	13	12.07	32	37.3	36
16	27.11	29	52.0	19	49.72	29	27.9	21	62.30	31	50.8	14	12.39	39	33.7	32
26	27.40	32	53.9	20	50.01	31	25.8	21	62.61	33	52.2	15	12.78	44	30.5	29
36	27.72		55.9		50.32		23.7		62.94		53.7		13.22		27.6	
Mittl. Ort	25.24		34.3		47.92		47.2		60.44		36.0		12.28		64.5	
	545)				547)				548)				549)			

1912	β Ursae min. $2^m.0$ AR.		Dekl. +		P. XIV 221. $6^m.0$ AR.		Dekl. +		β Lupi. $2^m.7$ AR.		Dekl. −		β Bootis. $3^m.3$ AR.		Dekl. +	
	$14^h 50^m$		74° 30′		$14^h 52^m$		14° 47′		$14^h 52^m$		42° 46′		$14^h 58^m$		40° 43′	
Jan. 1	55.58	78	34.6	24	2.90	32	55.9	24	43.77	42	41.2	7	36.84	35	58.3	27
11	56.36	84	32.2	19	3.22	33	53.5	22	44.19	43	41.9	10	37.19	37	55.6	23
21	57.20	89	30.3	12	3.55	33	51.3	18	44.62	43	42.9	13	37.56	39	53.3	17
31	58.09	89	29.1	5	3.88	32	49.5	15	45.05	42	44.2	15	37.95	38	51.6	12
Febr. 10	58.98	88	28.6	1	4.20	32	48.0	10	45.47	40	45.7	18	38.33	37	50.4	6
20	59.86	83	28.7	8	4.52	29	47.0	7	45.87	38	47.5	19	38.70	35	49.8	0
März 1	60.69	74	29.5	15	4.81	27	46.3	2	46.25	35	49.4	20	39.05	31	49.8	6
11	61.43	65	31.0	19	5.08	23	46.1	2	46.60	31	51.4	21	39.36	29	50.4	11
21	62.08	52	32.9	24	5.31	21	46.3	5	46.91	28	53.5	21	39.65	24	51.5	16
31	62.60	40	35.3	28	5.52	18	46.8	9	47.19	25	55.6	21	39.89	20	53.1	19
April 10	63.00	25	38.1	30	5.70	15	47.7	11	47.44	20	57.7	20	40.09	16	55.0	23
20	63.25	11	41.1	31	5.85	11	48.8	13	47.64	17	59.7	20	40.25	11	57.3	25
30	63.36	3	44.2	31	5.96	8	50.1	14	47.81	12	61.7	18	40.36	7	59.8	25
Mai 10	63.33	17	47.3	30	6.04	6	51.5	15	47.93	9	63.5	18	40.43	3	62.3	26
20	63.16	29	50.3	28	6.10	3	53.0	16	48.02	5	65.3	16	40.46	0	64.9	25
30	62.87	42	53.1	25	6.13	1	54.6	14	48.07	1	66.9	14	40.46	5	67.4	23
Juni 9	62.45	51	55.6	21	6.12	3	56.0	14	48.08	3	68.3	11	40.41	9	69.7	21
19	61.94	60	57.7	17	6.09	5	57.4	12	48.05	7	69.4	10	40.32	12	71.8	18
29	61.34	67	59.4	12	6.04	8	58.6	11	47.98	11	70.4	7	40.20	14	73.6	15
Juli 9	60.67	73	60.6	7	5.96	10	59.7	8	47.87	13	71.1	4	40.06	17	75.1	10
19	59.94	76	61.3	2	5.86	12	60.5	6	47.74	17	71.5	2	39.89	19	76.1	7
29	59.18	79	61.5	4	5.74	14	61.1	4	47.57	18	71.7	2	39.70	21	76.8	2
Aug. 8	58.39	78	61.1	9	5.60	14	61.5	2	47.39	19	71.5	5	39.49	22	77.0	2
18	57.61	77	60.2	14	5.46	14	61.7	2	47.20	20	71.0	7	39.27	22	76.8	7
28	56.84	73	58.8	19	5.32	14	61.5	3	47.00	19	70.3	10	39.05	21	76.1	11
Sept. 7	56.11	67	56.9	23	5.18	13	61.2	7	46.81	17	69.3	12	38.84	19	75.0	15
17	55.44	60	54.6	28	5.05	10	60.5	10	46.64	13	68.1	14	38.65	17	73.5	19
27	54.84	51	51.8	31	4.95	8	59.5	12	46.51	9	66.7	15	38.48	13	71.6	22
Okt. 7	54.33	40	48.7	34	4.87	3	58.3	15	46.42	5	65.2	15	38.35	9	69.4	26
17	53.93	27	45.3	37	4.84	0	56.8	18	46.37	2	63.7	15	38.26	4	66.8	30
27	53.66	14	41.6	39	4.84	5	55.0	20	46.39	9	62.2	14	38.22	1	63.8	32
Nov. 6	53.52	2	37.7	43	4.89	11	53.0	25	46.48	7	60.8	13	38.23	8	60.6	36
16	53.54	18	33.4	39	5.00	16	50.5	25	46.65	21	59.5	9	38.31	14	57.0	35
26	53.72	34	29.5	37	5.16	20	48.0	25	46.86	28	58.6	6	38.45	20	53.5	35
Dez. 6	54.06	47	25.8	35	5.36	25	45.5	26	47.14	34	58.0	2	38.65	25	50.0	34
16	54.53	61	22.3	32	5.61	28	42.9	26	47.48	37	57.8	1	38.90	30	46.6	32
26	55.14	72	19.1	27	5.89	30	40.3	24	47.85	41	57.9	4	39.20	34	43.4	29
36	55.86		16.4		6.19		37.9		48.26		58.3		39.54		40.5	
Mittl. Ort	57.00		54.6		3.98		64.8		45.69		48.5		37.87		73.7	
	550)				551)				552)				555)			

1912	γ Scorpii. $3^m.4$. AR.		Dekl. —		ψ Bootis. $4^m.5$. AR.		Dekl. +		ζ Lupi. $3^m.4$. AR.		Dekl. —		γ Triang. austr. $2^m.9$. AR.		Dekl. —	
	$14^h\,58^m$		24° 56′		$15^h\,0^m$		27° 16′		$15^h\,5^m$		51° 45′		$15^h\,10^m$		68° 21′	
	s		″		s		″		s		″		s		″	
Jan. 1	53.43	35	10.1	13	39.41	33	72.5	26	54.92	47	45.6	2	36.79	72	8.6	5
11	53.78	36	11.4	14	39.74	34	69.9	23	55.39	49	45.8	6	37.51	75	8.1	—1
21	54.14	37	12.8	15	40.08	34	67.6	19	55.88	50	46.4	10	38.26	77	8.2	5
31	54.51	35	14.3	16	40.42	35	65.7	13	56.38	49	47.4	12	39.03	77	8.7	10
Febr. 10	54.86	34	15.9	16	40.77	33	64.4	9	56.87	47	48.6	16	39.80	75	9.7	14
20	55.20	32	17.5	16	41.10	31	63.5	3	57.34	45	50.2	19	40.55	71	11.1	18
März 1	55.52	29	19.1	15	41.41	28	63.2	—1	57.79	42	52.1	20	41.26	67	12.9	22
11	55.81	27	20.6	14	41.69	26	63.3	7	58.21	38	54.1	22	41.93	61	15.1	24
21	56.08	24	22.0	14	41.95	22	64.0	10	58.59	34	56.3	23	42.54	55	17.5	27
31	56.32	20	23.4	11	42.17	19	65.0	15	58.93	30	58.6	24	43.09	48	20.2	28
April 10	56.52	18	24.5	11	42.36	15	66.5	17	59.23	25	61.0	23	43.57	40	23.0	30
20	56.70	15	25.6	10	42.51	12	68.2	19	59.48	21	63.3	24	43.97	32	26.0	29
30	56.85	12	26.6	8	42.63	9	70.1	21	59.69	16	65.7	23	44.29	23	28.9	30
Mai 10	56.97	9	27.4	7	42.72	5	72.2	21	59.85	12	68.0	21	44.52	16	31.9	30
20	57.06	5	28.1	6	42.77	1	74.3	20	59.97	6	70.1	21	44.68	6	34.9	28
30	57.11	2	28.7	5	42.78	—1	76.3	20	60.03	1	72.2	19	44.74	—3	37.7	26
Juni 9	57.13	—1	29.2	3	42.77	5	78.3	18	60.04	—3	74.1	17	44.71	11	40.3	24
19	57.12	3	29.5	2	42.72	7	80.1	16	60.01	9	75.8	13	44.60	19	42.7	20
29	57.09	7	29.7	1	42.65	10	81.7	13	59.92	12	77.1	11	44.41	27	44.7	18
Juli 9	57.02	9	29.8	0	42.55	13	83.0	10	59.80	17	78.2	8	44.14	34	46.5	13
19	56.93	12	29.8	2	42.42	15	84.0	7	59.63	20	79.0	5	43.80	40	47.8	9
29	56.81	14	29.6	4	42.27	15	84.7	4	59.43	23	79.5	1	43.40	43	48.7	4
Aug. 8	56.67	14	29.2	4	42.12	17	85.1	0	59.20	24	79.6	—3	42.97	47	49.1	—1
18	56.53	15	28.8	5	41.95	17	85.1	3	58.96	25	79.3	7	42.50	46	49.0	5
28	56.38	14	28.3	7	41.78	16	84.8	7	58.71	24	78.6	10	42.04	45	48.5	10
Sept. 7	56.24	13	27.6	7	41.62	16	84.1	11	58.47	22	77.6	13	41.59	42	47.5	15
17	56.11	11	26.9	7	41.46	13	83.0	14	58.25	19	76.3	15	41.17	35	46.0	19
27	56.00	7	26.2	7	41.33	10	81.6	17	58.06	13	74.8	18	40.82	27	44.1	21
Okt. 7	55.93	3	25.5	6	41.23	6	79.9	21	57.93	8	73.0	19	40.55	18	42.0	24
17	55.90	—1	24.9	5	41.17	2	77.8	24	57.85	1	71.1	19	40.37	6	39.6	26
27	55.91	7	24.4	3	41.15	—3	75.4	26	57.84	—7	69.2	18	40.31	—5	37.0	25
Nov. 6	55.98	14	24.1	2	41.18	9	72.8	32	57.91	16	67.4	18	40.36	21	34.5	27
16	[9] 56.12	18	23.9	—2	[9] 41.27	14	69.6	30	[11] 58.07	23	65.6	15	[12] 40.57	32	31.8	23
26	56.30	23	24.1	4	41.41	19	66.6	30	58.30	31	64.1	12	40.89	43	29.5	20
Dez. 6	56.53	28	24.5	6	41.60	25	63.6	30	58.61	36	62.9	8	41.32	53	27.5	16
16	56.81	31	25.1	9	41.85	28	60.6	30	58.97	42	62.1	5	41.85	63	25.9	12
26	57.12	34	26.0	11	42.13	31	57.6	27	59.39	45	61.6	0	42.48	70	24.7	7
36	57.46		27.1		42.44		54.9		59.84		61.6		43.18		24.0	
Mittl. Ort	54.96		12.4		40.48		84.8		57.29		53.9		40.71		19.3	
	556)				557)				558)				560)			

1912	δ Bootis. $3^m.2$. AR.	Δ	Dekl. +	Δ	β Librae. $2^m.5$. AR.	Δ	Dekl. −	Δ	1 H. Urs. min. $5^m.3$. AR.	Δ	Dekl. +	Δ	ψ^1 Lupi. $3^m.5$. AR.	Δ	Dekl. −	Δ
	$15^h\ 11^m$		$33°\ 38'$		$15^h\ 12^m$		$9°\ 3'$		$15^h\ 13^m$		$67°\ 40'$		$15^h\ 16^m$		$35°\ 56'$	
Jan. 1	56.17		19.4		14.80		34.6		35.92		31.5		11.20		30.0	
11	56.50	33	16.7	27	15.12	32	36.3	17	36.47	55	28.7	28	11.57	37	30.7	7
21	56.85	35	14.3	24	15.45	33	38.0	17	37.07	60	26.5	22	11.96	39	31.6	9
31	57.20	35	12.5	18	15.78	33	39.7	17	37.71	64	24.9	16	12.36	40	32.8	12
Febr. 10	57.56	36	11.1	14	16.11	33	41.3	16	38.36	65	23.9	10	12.75	39	34.2	14
20	57.91	35	10.2	9	16.43	32	42.7	14	39.00	64	23.6	3	13.13	38	35.7	15
März 1	58.24	33	10.0	2	16.73	30	43.9	12	39.62	62	24.1	5	13.50	37	37.3	16
11	58.54	30	10.3	3	17.01	28	44.9	10	40.20	58	25.1	10	13.83	33	38.9	16
21	58.82	28	11.1	8	17.27	26	45.7	8	40.71	51	26.7	16	14.15	32	40.6	17
31	59.06	24	12.3	12	17.50	23	46.2	5	41.14	43	28.9	22	14.43	28	42.2	16
April 10	59.26	20	14.0	17	17.70	20	46.6	4	41.49	35	31.4	25	14.68	25	43.8	16
20	59.43	17	16.0	20	17.88	18	46.7	1	41.74	25	34.3	29	14.90	22	45.4	16
30	59.56	13	18.2	22	18.03	15	46.7	0	41.90	16	37.3	30	15.08	18	46.9	15
Mai 10	59.65	9	20.5	23	18.15	12	46.5	2	41.97	7	40.4	31	15.23	15	48.4	15
20	59.71	6	22.9	24	18.24	9	46.3	2	41.94	3	43.5	31	15.34	11	49.7	13
30	59.73	2	25.2	23	18.30	6	45.9	4	41.81	13	46.5	30	15.42	8	50.9	12
Juni 9	59.71	2	27.4	22	18.33	3	45.5	4	41.60	21	49.2	27	15.46	4	52.0	11
19	59.66	5	29.5	21	18.33	0	45.1	4	41.32	28	51.5	23	15.46	0	52.9	9
29	59.58	8	31.3	18	18.31	2	44.7	4	40.96	36	53.5	20	15.43	3	53.6	7
Juli 9	59.47	11	32.8	15	18.25	6	44.2	5	40.55	41	55.1	16	15.36	7	54.2	6
19	59.33	14	33.9	11	18.17	8	43.8	4	40.08	47	56.2	11	15.25	11	54.6	4
29	59.16	17	34.7	8	18.07	10	43.4	4	39.58	50	56.8	6	15.12	13	54.7	1
Aug. 8	58.99	17	35.1	4	17.95	12	43.0	4	39.06	52	56.9	1	14.96	16	54.7	0
18	58.79	20	35.2	1	17.82	13	42.6	4	38.52	54	56.5	4	14.79	17	54.3	4
28	58.60	19	34.8	4	17.68	14	42.3	3	37.98	54	55.5	10	14.62	17	53.8	5
Sept. 7	58.41	19	34.0	8	17.55	13	42.0	3	37.46	52	54.0	15	14.44	18	53.1	7
17	58.24	17	32.8	12	17.42	13	41.8	2	36.97	49	52.0	20	14.28	16	52.2	9
27	58.08	16	31.3	15	17.31	11	41.7	1	36.52	45	49.6	24	14.14	14	51.2	10
Okt. 7	57.95	13	29.3	20	17.23	8	41.8	1	36.14	38	46.8	28	14.04	10	50.0	12
17	57.87	8	27.1	22	17.19	4	42.0	2	35.83	31	43.6	32	13.98	6	48.9	11
27	57.82	5	24.5	26	17.19	0	42.4	4	35.60	23	40.1	35	13.97	1	47.8	11
Nov. 6	57.83	1	21.6	29	17.23	4	43.0	6	35.47	13	36.4	37	14.03	6	46.8	10
16	57.90	7	18.2	34	17.34	11	43.9	9	35.46	1	32.1	43	14.15	12	45.8	10
26	58.03	13	15.0	32	17.49	15	45.0	11	35.56	10	28.2	39	14.33	18	45.2	6
Dez. 6	58.21	18	11.7	33	17.69	20	46.3	13	35.77	21	24.4	38	14.57	24	44.9	3
16	58.44	23	8.4	33	17.93	24	47.7	14	36.09	32	20.7	37	14.85	28	44.8	1
26	58.72	28	5.3	31	18.20	27	49.3	16	36.51	42	17.3	34	15.19	34	45.0	2
36	59.03	31	2.4	29	18.52	32	50.9	16	37.01	50	14.3	30	15.55	36	45.6	6
Mittl. Ort	57.30		33.3		16.17		31.9		37.43		50.6		13.04		34.1	
	563)				564)				565)				566)			

1912	γ Ursae min. $3^m.0$. AR.	Δ	Dekl. +	Δ	μ Bootis. $4^m.1$. AR.	Δ	Dekl. +	Δ
	$15^h\ 20^m$		$72°\ 8'$		$15^h\ 21^m$		$37°\ 40'$	
Jan. 1	49.70	62	30.4	28	8.75	33	52.3	28
11	50.32	70	27.6	22	9.08	35	49.5	25
21	51.02	76	25.4	16	9.43	37	47.0	19
31	51.78	78	23.8	10	9.80	36	45.1	14
Febr. 10	52.56	77	22.8	3	10.16	36	43.7	8
20	53.33	75	22.5	4	10.52	35	42.9	3
März 1	54.08	70	22.9	11	10.87	32	42.6	4
11	54.78	62	24.0	16	11.19	29	43.0	8
21	55.40	54	25.6	21	11.48	25	43.8	14
31	55.94	43	27.7	26	11.73	22	45.2	18
April 10	56.37	31	30.3	29	11.95	18	47.0	21
20	56.68	19	33.2	31	12.13	14	49.1	24
30	56.87	7	36.3	31	12.27	10	51.5	25
Mai 10	56.94	5	39.4	31	12.37	7	54.0	25
20	56.89	16	42.5	30	12.44	2	56.5	26
30	56.73	28	45.5	28	12.46	2	59.1	23
Juni 9	56.45	37	48.3	24	12.44	5	61.4	22
19	56.08	45	50.7	21	12.39	9	63.6	20
29	55.63	54	52.8	16	12.30	13	65.6	16
Juli 9	55.09	60	54.4	11	12.17	15	67.2	13
19	54.49	65	55.5	7	12.02	18	68.5	9
29	53.84	67	56.2	1	11.84	19	69.4	5
Aug. 8	53.17	70	56.3	4	11.65	21	69.9	1
18	52.47	69	55.9	9	11.44	22	70.0	4
28	51.78	68	55.0	15	11.22	21	69.6	8
Sept. 7	51.10	64	53.5	19	11.01	19	68.8	12
17	50.46	58	51.6	24	10.82	18	67.6	16
27	49.88	52	49.2	27	10.64	15	66.0	20
Okt. 7	49.36	43	46.5	32	10.49	11	64.0	24
17	48.93	32	43.3	34	10.38	6	61.6	26
27	48.61	21	39.9	37	10.32	1	59.0	30
Nov. 6	48.40	8	36.2	42	10.31	5	56.0	35
16	48.32	7	32.0	40	10.36	11	52.5	34
26	48.39	21	28.0	38	10.47	17	49.1	34
Dez. 6	48.60	33	24.2	37	10.64	22	45.7	34
16	48.93	46	20.5	34	10.86	28	42.3	32
26	49.39	57	17.1	30	11.14	31	39.1	30
36	49.96		14.1		11.45		36.1	
Mittl. Ort	51.55		49.7		9.94		67.0	
	569)				568)			

1912	ι Draconis. $3^m.2$. AR.	Δ	Dekl. +	Δ	β Coron. bor. $3^m.7$. AR.	Δ	Dekl. +	Δ
	$15^h\ 22^m$		$59°\ 15'$		$15^h\ 24^m$		$29°\ 24'$	
Jan. 1	56.82	42	68.4	29	10.84	31	17.6	27
11	57.24	47	65.5	24	11.15	33	14.9	24
21	57.71	50	63.1	18	11.48	34	12.5	20
31	58.21	51	61.3	12	11.82	34	10.5	15
Febr. 10	58.72	50	60.1	5	12.16	34	9.0	9
20	59.22	49	59.6	2	12.50	33	8.1	5
März 1	59.71	45	59.8	8	12.83	30	7.6	1
11	60.16	41	60.6	14	13.13	27	7.7	6
21	60.57	35	62.0	19	13.40	25	8.3	11
31	60.92	30	63.9	24	13.65	21	9.4	15
April 10	61.22	23	66.3	27	13.86	18	10.9	18
20	61.45	15	69.0	29	14.04	14	12.7	20
30	61.60	9	71.9	31	14.18	11	14.7	22
Mai 10	61.69	2	75.0	30	14.29	7	16.9	23
20	61.71	4	78.0	30	14.36	4	19.2	22
30	61.67	11	81.0	27	14.40	0	21.4	22
Juni 9	61.56	17	83.7	25	14.40	3	23.6	20
19	61.39	22	86.2	22	14.37	6	25.6	18
29	61.17	27	88.4	17	14.31	10	27.4	15
Juli 9	60.90	30	90.1	13	14.21	12	28.9	12
19	60.60	34	91.4	9	14.09	15	30.1	10
29	60.26	37	92.3	3	13.94	16	31.1	5
Aug. 8	59.89	38	92.6	2	13.78	18	31.6	2
18	59.51	38	92.4	7	13.60	19	31.8	2
28	59.13	38	91.7	12	13.41	18	31.6	6
Sept. 7	58.75	35	90.5	16	13.23	18	31.0	9
17	58.40	33	88.9	22	13.05	15	30.1	13
27	58.07	28	86.7	26	12.90	12	28.8	17
Okt. 7	57.79	23	84.1	29	12.78	10	27.1	21
17	57.56	16	81.2	33	12.68	5	25.0	23
27	57.40	9	77.9	36	12.63	0	22.7	27
Nov. 6	57.31	0	74.3	41	12.63	6	20.0	31
16	57.31	9	70.2	38	12.69	11	16.9	31
26	57.40	17	66.4	39	12.80	17	13.8	31
Dez. 6	57.57	26	62.5	36	12.97	22	10.7	31
16	57.83	33	58.9	35	13.19	26	7.6	31
26	58.16	39	55.4	31	13.45	29	4.5	28
36	58.55		52.3		13.74		1.7	
Mittl. Ort	58.22		86.5		12.04		30.6	
	571)				572)			

1912	ν^1 Bootis. $4^m.8$.				γ Lupi. $2^m.9$.				γ Librae. $4^m.1$.				α Coron. bor. $2^m.2$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +	
	$15^h\ 27^m$		$41°\ 7'$		$15^h\ 29^m$		$40°\ 52'$		$15^h\ 30^m$		$14°\ 29'$		$15^h\ 30^m$		$27°\ 0'$	
Jan. 1	44.84	33	41.9	29	14.20	39	13.6	4	34.57	31	50.0	15	56.46	30	24.5	27
11	45.17	36	39.0	25	14.59	41	14.0	7	34.88	33	51.5	15	56.76	32	21.8	24
21	45.53	38	36.5	20	15.00	42	14.7	9	35.21	34	53.0	15	57.08	34	19.4	20
31	45.91	37	34.5	15	15.42	42	15.6	12	35.55	33	54.5	14	57.42	34	17.4	16
Febr. 10	46.28	38	33.0	8	15.84	40	16.8	13	35.88	33	55.9	14	57.76	33	15.8	10
20	46.66	36	32.2	2	16.24	39	18.1	15	36.21	32	57.3	12	58.09	32	14.8	5
März 1	47.02	33	32.0	4	16.63	37	19.6	16	36.53	29	58.5	11	58.41	30	14.3	0
11	47.35	31	32.4	9	17.00	34	21.2	17	36.82	28	59.6	9	58.71	28	14.3	5
21	47.66	27	33.3	14	17.34	32	22.9	17	37.10	24	60.5	7	58.99	25	14.8	9
31	47.93	23	34.7	19	17.66	28	24.6	18	37.34	23	61.2	5	59.24	22	15.7	14
April 10	48.16	19	36.6	22	17.94	24	26.4	17	37.57	19	61.7	4	59.46	18	17.1	17
20	48.35	15	38.8	25	18.18	21	28.1	17	37.76	17	62.1	2	59.64	15	18.8	19
30	48.50	11	41.3	26	18.39	18	29.8	16	37.93	14	62.3	1	59.79	12	20.7	21
Mai 10	48.61	6	43.9	27	18.57	13	31.4	16	38.07	12	62.4	1	59.91	8	22.8	22
20	48.67	2	46.6	26	18.70	10	33.0	14	38.19	8	62.5	1	59.99	5	25.0	21
30	48.69	2	49.2	25	18.80	5	34.4	14	38.27	5	62.4	1	60.04	1	27.1	21
Juni 9	48.67	6	51.7	24	18.85	1	35.8	12	38.32	2	62.3	2	60.05	2	29.2	20
19	48.61	9	54.1	20	18.86	3	37.0	10	38.34	1	62.1	2	60.03	6	31.2	18
29	48.52	14	56.1	17	18.83	7	38.0	8	38.33	5	61.9	3	59.97	8	33.0	16
Juli 9	48.38	16	57.8	14	18.76	10	38.8	6	38.28	7	61.6	2	59.89	11	34.6	12
19	48.22	19	59.2	9	18.66	14	39.4	4	38.21	10	61.4	3	59.78	14	35.8	9
29	48.03	21	60.1	6	18.52	17	39.8	1	38.11	12	61.1	4	59.64	16	36.7	6
Aug. 8	47.82	23	60.7	1	18.35	19	39.9	2	37.99	13	60.7	3	59.48	17	37.3	3
18	47.59	23	60.8	3	18.16	19	39.7	4	37.86	15	60.4	3	59.31	18	37.6	1
28	47.36	23	60.5	8	17.97	20	39.3	7	37.71	14	60.1	4	59.13	18	37.5	5
Sept. 7	47.13	22	59.7	13	17.77	18	38.6	9	37.57	14	59.7	3	58.95	17	37.0	8
17	46.91	19	58.4	16	17.59	16	37.7	11	37.43	12	59.4	2	58.78	15	36.2	12
27	46.72	17	56.8	21	17.43	12	36.6	13	37.31	9	59.2	2	58.63	13	35.0	16
Okt. 7	46.55	13	54.7	24	17.31	8	35.3	13	37.22	5	59.0	1	58.50	9	33.4	19
17	46.42	8	52.3	28	17.23	3	34.0	13	37.17	2	58.9	1	58.41	5	31.5	22
27	46.34	2	49.5	31	17.20	4	32.7	13	37.15	3	59.0	2	58.36	1	29.3	25
Nov. 6	46.32	3	46.4	33	17.24	10	31.4	12	37.18	9	59.2	5	58.35	5	26.8	28
16	46.35	10	43.1	37	17.34	19	30.2	10	37.27	15	59.7	7	58.40	12	24.0	32
26	16 46.45	16	39.4	36	16 17.53	23	29.2	8	17 37.42	19	60.4	9	17 58.52	15	20.8	30
Dez. 6	46.61	22	35.8	34	17.76	29	28.4	4	37.61	23	61.3	10	58.67	22	17.8	31
16	46.83	27	32.4	33	18.05	34	28.0	1	37.84	27	62.3	12	58.89	25	14.7	30
26	47.10	31	29.1	31	18.39	38	27.9	2	38.11	30	63.5	14	59.14	29	11.7	28
36	47.41		26.0		18.77		28.1		38.41		64.9		59.43		8.9	
Mittl. Ort	46.09		57.2		16.25		18.0		36.07		48.0		57.70		37.0	
	573)				575)				577)				578)			

1912	α Serpentis. $2^m.5$.				β Serpentis. $3^m.4$.				κ Serpentis. $4^m.0$.				μ Serpentis. $3^m.3$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$15^h 39^m$		6° 41′		$15^h 42^m$		15° 41′		$15^h 44^m$		18° 24′		$15^h 45^m$		3° 9′	
Jan. 1	54.59	29	58.9	22	6.21	29	37.7	25	45.36	29	35.0	25	0.11	30	47.3	18
11	54.88	31	56.7	21	6.50	31	35.2	22	45.65	31	32.5	23	0.41	31	49.1	17
21	55.19	32	54.6	18	6.81	32	33.0	20	45.96	32	30.2	20	0.72	32	50.8	17
31	55.51	32	52.8	16	7.13	33	31.0	16	46.28	32	28.2	16	1.04	32	52.5	15
Febr. 10	55.83	31	51.2	12	7.46	32	29.4	12	46.60	32	26.6	12	1.36	32	54.0	13
20	56.14	31	50.0	9	7.78	30	28.2	7	46.92	31	25.4	7	1.68	31	55.3	10
März 1	56.45	29	49.1	6	8.08	30	27.5	4	47.23	30	24.7	3	1.99	29	56.3	8
11	56.74	26	48.5	1	8.38	27	27.1	1	47.53	27	24.4	2	2.28	27	57.1	5
21	57.00	24	48.4	2	8.65	24	27.2	6	47.80	25	24.6	6	2.55	25	57.6	2
31	57.24	22	48.6	4	8.89	22	27.8	8	48.05	22	25.2	10	2.80	22	57.8	1
April 10	57.46	19	49.0	8	9.11	19	28.6	12	48.27	20	26.2	13	3.02	20	57.7	2
20	57.65	16	49.8	10	9.30	16	29.8	14	48.47	16	27.5	15	3.22	17	57.5	4
30	57.81	14	50.8	11	9.46	14	31.2	16	48.63	13	29.0	18	3.39	15	57.1	6
Mai 10	57.95	10	51.9	12	9.60	10	32.8	17	48.76	11	30.8	18	3.54	12	56.5	7
20	58.05	8	53.1	13	9.70	7	34.5	17	48.87	7	32.6	18	3.66	9	55.8	8
30	58.13	5	54.4	12	9.77	4	36.2	17	48.94	4	34.4	19	3.75	5	55.0	8
Juni 9	58.18	1	55.6	13	9.81	1	37.9	17	48.98	0	36.3	17	3.80	3	54.2	7
19	58.19	2	56.9	11	9.82	3	39.6	14	48.98	3	38.0	16	3.83	0	53.5	8
29	58.17	4	58.0	11	9.79	6	41.0	14	48.95	6	39.6	14	3.83	4	52.7	7
Juli 9	58.13	8	59.1	9	9.73	8	42.4	11	48.89	9	41.0	12	3.79	7	52.0	6
19	58.05	10	60.0	7	9.65	11	43.5	9	48.80	11	42.2	10	3.72	9	51.4	6
29	57.95	12	60.7	6	9.54	14	44.4	6	48.69	14	43.2	6	3.63	12	50.8	5
Aug. 8	57.83	14	61.3	4	9.40	15	45.0	4	48.55	15	43.8	4	3.51	13	50.3	3
18	57.69	14	61.7	1	9.25	16	45.4	1	48.40	17	44.2	1	3.38	14	50.0	3
28	57.55	15	61.8	0	9.09	16	45.5	1	48.23	16	44.3	2	3.24	15	49.7	1
Sept. 7	57.40	15	61.8	2	8.93	15	45.4	5	48.07	16	44.1	5	3.09	14	49.6	0
17	57.25	13	61.6	5	8.78	14	44.9	8	47.91	15	43.6	9	2.95	13	49.6	1
27	57.12	10	61.1	7	8.64	12	44.1	10	47.76	12	42.7	11	2.82	10	49.7	3
Okt. 7	57.02	7	60.4	10	8.52	8	43.1	14	47.64	9	41.6	15	2.72	7	50.0	5
17	56.95	4	59.4	12	8.44	5	41.7	17	47.55	5	40.1	18	2.65	3	50.5	7
27	56.91	1	58.2	14	8.39	0	40.0	19	47.50	1	38.3	20	2.62	1	51.2	8
Nov. 6	56.92	6	56.8	17	8.39	5	38.1	22	47.49	4	36.3	23	2.63	6	52.0	11
16	56.98	12	55.1	20	8.44	11	35.9	25	47.53	11	34.0	27	2.69	12	53.1	14
26	57.10	16	53.1	21	8.55	16	33.4	26	47.64	15	31.3	27	2.81	17	54.5	15
Dez. 6	57.26	21	51.0	22	8.71	20	30.8	26	47.79	19	28.6	27	2.98	21	56.0	17
16	57.47	25	48.8	22	8.91	24	28.2	26	47.98	24	25.9	27	3.19	25	57.7	17
26	57.72	28	46.6	22	9.15	27	25.6	25	48.22	27	23.2	26	3.44	28	59.4	18
36	58.00		44.4		9.42		23.1		48.49		20.6		3.72		61.2	
Mittl. Ort	55.94		66.6		7.54		47.6		46.69		45.6		1.56		41.8	
	582)				583)				584)				585)			

1912	ε Serpentis. $3^m.5$. AR.		Dekl. +		ζ Ursae min. $4^m.3$. AR.		Dekl. +	
	$15^h\ 46^m$	Δ	$4°\ 44'$	Δ	$15^h\ 47^m$	Δ	$78°\ 3'$	Δ
Jan. 1	24.30	28	23.5	21	7.42	76	37.6	28
11	24.58	31	21.4	20	8.18	91	34.8	24
21	24.89	32	19.4	18	9.09	101	32.4	19
31	25.21	32	17.6	16	10.10	108	30.5	12
Febr. 10	25.53	31	16.0	12	11.18	110	29.3	6
20	25.84	31	14.8	9	12.28	109	28.7	2
März 1	26.15	29	13.9	6	13.37	105	28.9	8
11	26.44	27	13.3	2	14.42	95	29.7	14
21	26.71	24	13.1	1	15.37	84	31.1	19
31	26.95	23	13.2	4	16.21	68	33.0	24
April 10	27.18	19	13.6	6	16.89	53	35.4	28
20	27.37	17	14.2	9	17.42	36	38.2	30
30	27.54	15	15.1	10	17.78	17	41.2	31
Mai 10	27.69	11	16.1	12	17.95	2	44.3	32
20	27.80	9	17.3	12	17.93	19	47.5	30
30	27.89	5	18.5	12	17.74	37	50.5	29
Juni 9	27.94	2	19.7	11	17.37	53	53.4	27
19	27.96	1	20.8	11	16.84	67	56.1	22
29	27.95	4	21.9	10	16.17	80	58.3	19
Juli 9	27.91	7	22.9	9	15.37	91	60.2	14
19	27.84	10	23.8	7	14.46	99	61.6	10
29	27.74	12	24.5	6	13.47	106	62.6	4
Aug. 8	27.62	14	25.1	4	12.41	109	63.0	1
18	27.48	14	25.5	2	11.32	111	62.9	6
28	27.34	15	25.7	0	10.21	109	62.3	11
Sept. 7	27.19	15	25.7	1	9.12	105	61.2	16
17	27.04	13	25.6	4	8.07	100	59.6	20
27	26.91	11	25.2	6	7.07	90	57.6	26
Okt. 7	26.80	7	24.6	9	6.17	79	55.0	29
17	26.73	4	23.7	11	5.38	64	52.1	32
27	26.69	1	22.6	13	4.74	48	48.9	35
Nov. 6	26.70	5	21.3	16	4.26	30	45.4	37
16	26.75	12	19.7	19	3.96	11	41.7	42
26	[21] 26.87	15	17.8	19	[21] 3.85	11	37.5	38
Dez. 6	27.02	21	15.9	21	3.96	32	33.7	37
16	27.23	24	13.8	21	4.28	51	30.0	35
26	27.47	27	11.7	21	4.79	68	26.5	32
36	27.74		9.6		5.47		23.3	
Mittl. Ort	25.69		31.0		10.60		56.4	
	588)				590)			

1912	β Triang. austr. $2^m.9$. AR.		Dekl. −		ε Coron. bor. $4^m.0$. AR.		Dekl. +	
	$15^h\ 47^m$	Δ	$63°\ 9'$	Δ	$15^h\ 53^m$	Δ	$27°\ 7'$	Δ
Jan. 1	19.22	57	29.1	8	55.25	28	43.0	28
11	19.79	61	28.3	3	55.53	32	40.2	25
21	20.40	64	28.0	1	55.85	32	37.7	21
31	21.04	65	28.1	5	56.17	34	35.6	16
Febr. 10	21.69	64	28.6	10	56.51	33	34.0	12
20	22.33	63	29.6	13	56.84	32	32.8	6
März 1	22.96	60	30.9	16	57.16	31	32.2	1
11	23.56	56	32.5	19	57.47	29	32.1	4
21	24.12	52	34.4	22	57.76	26	32.5	8
31	24.64	47	36.6	23	58.02	24	33.3	13
April 10	25.11	41	38.9	25	58.26	20	34.6	17
20	25.52	36	41.4	25	58.46	17	36.3	19
30	25.88	29	43.9	27	58.63	14	38.2	21
Mai 10	26.17	22	46.6	26	58.77	11	40.3	23
20	26.39	14	49.2	26	58.88	7	42.6	22
30	26.53	8	51.8	24	58.95	3	44.8	23
Juni 9	26.61	0	54.2	24	58.98	0	47.1	21
19	26.61	8	56.6	21	58.98	3	49.2	19
29	26.53	15	58.7	18	58.95	8	51.1	17
Juli 9	26.38	21	60.5	15	58.87	10	52.8	14
19	26.17	27	62.0	11	58.77	13	54.2	11
29	25.90	32	63.1	7	58.64	16	55.3	8
Aug. 8	25.58	35	63.8	3	58.48	17	56.1	5
18	25.23	37	64.1	1	58.31	18	56.6	1
28	24.86	38	64.0	6	58.13	19	56.7	3
Sept. 7	24.48	35	63.4	10	57.94	19	56.4	7
17	24.13	32	62.4	14	57.75	16	55.7	10
27	23.81	27	61.0	18	57.59	15	54.7	14
Okt. 7	23.54	20	59.2	20	57.44	11	53.3	18
17	23.34	11	57.2	22	57.33	8	51.5	21
27	23.23	1	55.0	23	57.25	3	49.4	24
Nov. 6	23.22	8	52.7	23	57.22	3	47.0	27
16	23.30	21	50.4	24	57.25	8	44.3	31
26	[21] 23.51	31	48.0	20	[21] 57.33	13	41.2	30
Dez. 6	23.82	40	46.0	17	57.46	19	38.2	31
16	24.22	48	44.3	14	57.65	23	35.1	30
26	24.70	54	42.9	9	57.88	26	32.1	29
36	25.24		42.0		58,14		29.2	
Mittl. Ort	22.72		36.0		56.61		55.5	
	589)				593)			

1912	δ Scorpii. 2m.3. AR.	Diff.	δ Scorpii. Dekl. −	Diff.	ϑ Draconis. 3m.8. AR.	Diff.	ϑ Draconis. Dekl. +	Diff.	β Scorpii. 2m.6. AR.	Diff.	β Scorpii. Dekl. −	Diff.	δ Ophiuchi. 2m.8. AR.	Diff.	δ Ophiuchi. Dekl. −	Diff.
	15h 55m		22° 22′		16h 0m		58° 47′		16h 0m		19° 33′		16h 9m		3° 28′	
Jan. 1	s 5.92	31	″ 20.8	10	s 12.54	37	″ 42.9	31	s 17.35	31	″ 57.6	10	s 42.41	28	″ 12.8	17
11	6.23	34	21.8	10	12.91	42	39.8	27	17.66	33	58.6	11	42.69	29	14.5	17
21	6.57	34	22.8	12	13.33	46	37.1	22	17.99	34	59.7	12	42.98	32	16.2	16
31	6.91	35	24.0	12	13.79	48	34.9	17	18.33	34	60.9	12	43.30	32	17.8	14
Febr. 10	7.26	34	25.2	12	14.27	49	33.2	9	18.67	34	62.1	12	43.62	31	19.2	12
20	7.60	34	26.4	11	14.76	49	32.3	3	19.01	33	63.3	11	43.93	32	20.4	10
März 1	7.94	32	27.5	11	15.25	47	32.0	4	19.34	31	64.4	10	44.25	29	21.4	7
11	8.26	30	28.6	10	15.72	43	32.4	11	19.65	30	65.4	9	44.54	29	22.1	4
21	8.56	28	29.6	9	16.15	39	33.5	16	19.95	28	66.3	8	44.83	26	22.5	2
31	8.84	26	30.5	8	16.54	34	35.1	21	20.23	25	67.1	6	45.09	24	22.7	1
April 10	9.10	22	31.3	6	16.88	29	37.2	25	20.48	23	67.7	5	45.33	23	22.6	3
20	9.32	20	31.9	6	17.17	22	39.7	29	20.71	20	68.2	4	45.56	19	22.3	5
30	9.52	18	32.5	5	17.39	15	42.6	30	20.91	18	68.6	3	45.75	17	21.8	6
Mai 10	9.70	14	33.0	4	17.54	8	45.6	31	21.09	15	68.9	3	45.92	14	21.2	7
20	9.84	11	33.4	4	17.62	2	48.7	32	21.24	11	69.2	1	46.06	11	20.5	8
30	9.95	8	33.8	3	17.64	5	51.9	30	21.35	8	69.3	1	46.17	8	19.7	9
Juni 9	10.03	5	34.1	2	17.59	11	54.9	28	21.43	5	69.4	1	46.25	5	18.8	8
19	10.08	1	34.3	2	17.48	17	57.7	25	21.48	1	69.5	0	46.30	1	18.0	8
29	10.09	3	34.5	0	17.31	23	60.2	22	21.49	2	69.5	0	46.31	2	17.2	7
Juli 9	10.06	6	34.5	1	17.08	28	62.4	17	21.47	6	69.5	1	46.29	5	16.5	7
19	10.00	9	34.6	1	16.80	32	64.1	14	21.41	9	69.4	1	46.24	8	15.8	6
29	9.91	12	34.5	1	16.48	36	65.5	8	21.32	11	69.3	1	46.16	11	15.2	4
Aug. 8	9.79	14	34.4	2	16.12	38	66.3	4	21.21	14	69.2	2	46.05	13	14.8	4
18	9.65	16	34.2	3	15.74	39	66.7	2	21.07	15	69.0	3	45.92	14	14.4	3
28	9.49	16	33.9	3	15.35	40	66.5	7	20.92	15	68.7	3	45.78	16	14.1	1
Sept. 7	9.33	15	33.6	4	14.95	39	65.8	11	20.77	15	68.4	4	45.62	14	14.0	1
17	9.18	14	33.2	5	14.56	37	64.7	17	20.62	14	68.0	3	45.48	14	13.9	1
27	9.04	11	32.7	5	14.19	33	63.0	22	20.48	12	67.7	3	45.34	12	14.0	3
Okt. 7	8.93	8	32.2	4	13.86	28	60.8	25	20.36	8	67.4	3	45.22	9	14.3	4
17	8.85	4	31.8	3	13.58	22	58.3	30	20.28	4	67.1	2	45.13	6	14.7	6
27	8.81	1	31.5	3	13.36	16	55.3	33	20.24	0	66.9	1	45.07	1	15.3	9
Nov. 6	8.82	6	31.2	1	13.20	8	52.0	35	20.24	6	66.8	0	45.06	3	16.2	10
16	8.88	13	31.1	1	13.12	1	48.5	41	20.30	12	66.8	3	45.09	9	17.2	12
26	9.01	18	31.2	3	13.13	10	44.4	38	20.42	16	67.1	4	45.18	15	18.4	15
Dez. 6	9.19	22	31.5	5	13.23	18	40.6	38	20.58	21	67.5	7	45.33	19	19.9	16
16	9.41	26	32.0	7	13.41	26	36.8	36	20.79	26	68.2	8	45.52	23	21.5	16
26	9.67	30	32.7	9	13.67	33	33.2	33	21.05	30	69.0	9	45.75	27	23.1	17
36	9.97		33.6		14.00		29.9		21.35		69.9		46.02		24.8	
Mittl. Ort	7.64		19.5		14.31		60.1		19.05		55.3		43.95		6.6	
	594)				598)				597)				603)			

1912	γ² Normae. 4ᵐ.2. AR.		Dekl. −		19 Ursae min. 5ᵐ.8. AR.		Dekl. +	
	16ʰ 13ᵐ		49° 56′		16ʰ 13ᵐ		76° 5′	
Jan. 1	12.33	41	23.0	5	15.68	59	40.6	31
11	12.74	44	22.5	2	16.27	71	37.5	27
21	13.18	46	22.3	2	16.98	84	34.8	22
31	13.64	48	22.5	4	17.82	91	32.6	16
Febr. 10	14.12	47	22.9	8	18.73	95	31.0	9
20	14.59	47	23.7	9	19.68	95	30.1	3
März 1	15.06	45	24.6	12	20.63	93	29.8	5
11	15.51	44	25.8	14	21.56	88	30.3	11
21	15.95	40	27.2	15	22.44	78	31.4	16
31	16.35	38	28.7	17	23.22	68	33.0	22
April 10	16.73	34	30.4	18	23.90	55	35.2	26
20	17.07	30	32.2	18	24.45	40	37.8	29
30	17.37	26	34.0	18	24.85	25	40.7	31
Mai 10	17.63	21	35.8	19	25.10	10	43.8	32
20	17.84	17	37.7	19	25.20	6	47.0	32
30	18.01	11	39.6	18	25.14	21	50.2	31
Juni 9	18.12	7	41.4	17	24.93	36	53.3	28
19	18.19	2	43.1	16	24.57	49	56.1	26
29	18.21	5	44.7	14	24.08	62	58.7	22
Juli 9	18.16	11	46.1	12	23.46	72	60.9	18
19	18.05	14	47.3	9	22.74	81	62.7	14
29	17.91	19	48.2	7	21.93	88	64.1	8
Aug. 8	17.72	21	48.9	3	21.05	93	64.9	4
18	17.51	24	49.2	0	20.12	95	65.3	2
28	17.27	25	49.2	3	19.17	97	65.1	7
Sept. 7	17.02	25	48.9	7	18.20	94	64.4	12
17	16.77	23	48.2	10	17.26	91	63.2	17
27	16.54	19	47.2	12	16.35	84	61.5	21
Okt. 7	16.35	15	46.0	14	15.51	75	59.4	26
17	16.20	10	44.6	16	14.76	64	56.8	30
27	16.10	3	43.0	17	14.12	51	53.8	33
Nov. 6	16.07	5	41.3	17	13.61	35	50.5	35
16	16.12	12	39.6	16	13.26	19	47.0	38
26	16.24	22	38.0	16	13.07	1	43.2	41
Dez. 6	16.46	27	36.4	12	13.06	18	39.1	38
16	16.73	33	35.2	10	13.24	35	35.3	36
26	17.06	39	34.2	6	13.59	54	31.7	33
36	17.45		33.6		14.13		28.4	
Mittl. Ort	14.94		25.8		19.07		58.3	
	604)				606)			

1912	ε Ophiuchi. 3ᵐ.2. AR.		Dekl. −		τ Herculis. 3ᵐ.6. AR.		Dekl. +	
	16ʰ 13ᵐ		4° 28′		16ʰ 17ᵐ		46° 30′	
Jan. 1	38.24	28	49.7	16	4.06	29	65.6	32
11	38.52	30	51.3	17	4.35	34	62.4	28
21	38.82	31	53.0	15	4.69	36	59.6	24
31	39.13	32	54.5	14	5.05	39	57.2	18
Febr. 10	39.45	32	55.9	12	5.44	39	55.4	13
20	39.77	31	57.1	10	5.83	39	54.1	6
März 1	40.08	30	58.1	7	6.22	38	53.5	1
11	40.38	29	58.8	4	6.60	36	53.6	7
21	40.67	26	59.2	2	6.96	33	54.3	12
31	40.93	25	59.4	0	7.29	29	55.5	18
April 10	41.18	22	59.4	3	7.58	26	57.3	21
20	41.40	20	59.1	5	7.84	21	59.4	26
30	41.60	18	58.6	6	8.05	17	62.0	27
Mai 10	41.78	14	58.0	7	8.22	12	64.7	30
20	41.92	12	57.3	7	8.34	7	67.7	29
30	42.04	8	56.6	8	8.41	2	70.6	29
Juni 9	42.12	6	55.8	8	8.43	3	73.5	27
19	42.18	1	55.0	7	8.40	7	76.2	26
29	42.19	1	54.3	7	8.33	13	78.8	22
Juli 9	42.18	5	53.6	7	8.20	16	81.0	19
19	42.13	8	52.9	6	8.04	20	82.9	15
29	42.05	11	52.3	4	7.84	23	84.4	11
Aug. 8	41.94	13	51.9	4	7.61	26	85.5	7
18	41.81	14	51.5	3	7.35	27	86.2	1
28	41.67	15	51.2	2	7.08	28	86.3	3
Sept. 7	41.52	16	51.0	0	6.80	28	86.0	8
17	41.36	14	51.0	1	6.52	27	85.2	12
27	41.22	12	51.1	2	6.25	24	84.0	17
Okt. 7	41.10	9	51.3	3	6.01	21	82.3	22
17	41.01	5	51.6	6	5.80	16	80.1	25
27	40.96	2	52.2	8	5.64	11	77.6	29
Nov. 6	40.94	4	53.0	9	5.53	5	74.7	32
16	40.98	8	53.9	11	5.48	1	71.5	35
26	41.06	15	55.0	15	5.49	9	68.0	39
Dez. 6	41.21	19	56.5	14	5.58	15	64.1	36
16	41.40	22	57.9	16	5.73	22	60.5	35
26	41.62	26	59.5	17	5.95	27	57.0	33
36	41.88		61.2		6.22		53.7	
Mittl. Ort	39.81		43.6		5.69		80.9	
	605)				608)			

1912	γ Herculis. $3^m.5$.				γ Apodis. $3^m.9$.				η Draconis. $2^m.7$.				α Scorpii. $1^m.2$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	$16^h 18^m$		19° 21′		$16^h 19^m$		78° 41′		$16^h 22^m$		61° 42′		$16^h 23^m$		26° 14′	
Jan. 1	$0^s.76$	26	21″.9	26	$47^s.09$	109	59″.0	18	$45^s.67$	35	31″.0	33	$58^s.66$	31	17″.3	6
11	1.02	29	19.3	23	48.18	122	57.2	12	46.02	42	27.7	29	58.97	32	17.9	7
21	1.31	31	17.0	21	49.40	132	56.0	8	46.44	47	24.8	24	59.29	35	18.6	8
31	1.62	32	14.9	17	50.72	137	55.2	3	46.91	49	22.4	18	59.64	35	19.4	9
Febr. 10	1.94	32	13.2	13	52.09	140	54.9	1	47.40	52	20.6	13	59.99	36	20.3	9
20	2.26	31	11.9	9	53.49	140	55.0	7	47.92	53	19.3	5	60.35	35	21.2	9
März 1	2.57	30	11.0	3	54.89	136	55.7	11	48.45	52	18.8	2	60.70	33	22.1	10
11	2.87	29	10.7	1	56.25	131	56.8	15	48.97	48	19.0	8	61.03	33	23.1	8
21	3.16	27	10.8	5	57.56	123	58.3	20	49.45	44	19.8	15	61.36	31	23.9	8
31	3.43	25	11.3	10	58.79	112	60.3	22	49.89	40	21.3	20	61.67	28	24.7	8
April 10	3.68	22	12.3	13	59.91	101	62.5	25	50.29	34	23.3	24	61.95	26	25.5	6
20	3.90	19	13.6	16	60.92	87	65.0	27	50.63	27	25.7	28	62.21	24	26.1	7
30	4.09	17	15.2	18	61.79	73	67.7	29	50.90	19	28.5	31	62.45	21	26.8	5
Mai 10	4.26	14	17.0	20	62.52	55	70.6	31	51.09	13	31.6	31	62.66	18	27.3	6
20	4.40	10	19.0	20	63.07	39	73.7	30	51.22	5	34.7	32	62.84	15	27.9	5
30	4.50	6	21.0	20	63.46	20	76.7	31	51.27	3	37.9	31	62.99	11	28.4	4
Juni 9	4.56	3	23.0	19	63.66	2	79.8	30	51.24	10	41.0	30	63.10	7	28.8	4
19	4.59	0	24.9	18	63.68	16	82.8	27	51.14	16	44.0	27	63.17	3	29.2	4
29	4.59	4	26.7	17	63.52	33	85.5	26	50.98	24	46.7	24	63.20	0	29.6	3
Juli 9	4.55	7	28.4	14	63.19	51	88.1	22	50.74	29	49.1	20	63.20	5	29.9	2
19	4.48	11	29.8	12	62.68	65	90.3	19	50.45	35	51.1	16	63.15	8	30.1	2
29	4.37	13	31.0	9	62.03	77	92.2	14	50.10	38	52.7	11	63.07	11	30.3	1
Aug. 8	4.24	15	31.9	6	61.26	88	93.6	9	49.72	42	53.8	7	62.96	14	30.4	1
18	4.09	17	32.5	3	60.38	93	94.5	5	49.30	45	54.5	1	62.82	15	30.3	1
28	3.92	17	32.8	0	59.45	96	95.0	2	48.85	45	54.6	4	62.67	17	30.2	3
Sept. 7	3.75	18	32.8	3	58.49	94	94.8	6	48.40	45	54.2	9	62.50	17	29.9	3
17	3.57	16	32.5	7	57.55	89	94.2	12	47.95	43	53.3	14	62.33	16	29.6	5
27	3.41	15	31.8	10	56.66	79	93.0	17	47.52	40	51.9	19	62.17	14	29.1	4
Okt. 7	3.26	12	30.8	14	55.87	65	91.3	21	47.12	35	50.0	24	62.03	10	28.7	5
17	3.14	8	29.4	16	55.22	48	89.2	25	46.77	29	47.6	28	61.93	7	28.2	5
27	3.06	4	27.8	19	54.74	27	86.7	27	46.48	23	44.8	31	61.86	2	27.7	5
Nov. 6	3.02	0	25.9	22	54.47	6	84.0	28	46.25	14	41.7	34	61.84	4	27.2	4
16	3.02	6	23.7	24	54.41	18	81.2	29	46.11	6	38.3	37	61.88	9	26.8	2
26	3.08	12	21.3	29	54.59	45	78.3	31	46.05	5	34.6	41	61.97	16	26.6	1
Dez. 6	28 3.20	17	18.4	27	28 55.04	64	75.2	26	29 46.10	13	30.5	38	29 62.13	20	26.5	2
16	3.37	20	15.7	27	55.68	84	72.6	23	46.23	23	26.7	37	62.33	24	26.7	3
26	3.57	25	13.0	26	56.52	102	70.3	20	46.46	31	23.0	33	62.57	29	27.0	4
36	3.82		10.4		57.54		68.3		46.77		19.7		62.86		27.4	
Mittl. Ort	2.23		32.9		55.16		64.3		47.78		47.5		60.54		15.1	
	609)				611)				615)				616)			

1912	β Herculis. 2ᵐ.6.				A Draconis. 5ᵐ.0.				σ Herculis. 4ᵐ.1.				ζ Ophiuchi. 2ᵐ.6.			
	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. +	Diff.	AR.	Diff.	Dekl. −	Diff.
	$16^h\ 26^m$		21° 40′		$16^h\ 28^m$		68° 57′		$16^h\ 31^m$		42° 36′		$16^h\ 32^m$		10° 23′	
Jan. 1	24.67	25	39.1	26	6.30	40	14.1	33	14.28	27	50.5	32	17.02	27	28.2	13
11	24.92	29	36.5	25	6.70	50	10.8	30	14.55	30	47.3	29	17.29	29	29.5	13
21	25.21	30	34.0	21	7.20	57	7.8	24	14.85	34	44.4	24	17.58	31	30.8	13
31	25.51	32	31.9	18	7.77	62	5.4	18	15.19	36	42.0	20	17.89	32	32.1	13
Febr. 10	25.83	32	30.1	13	8.39	66	3.6	12	15.55	37	40.0	14	18.21	32	33.4	10
20	26.15	32	28.8	9	9.05	66	2.4	5	15.92	37	38.6	7	18.53	32	34.4	10
März 1	26.47	31	27.9	3	9.71	65	1.9	2	16.29	37	37.9	1	18.85	31	35.4	7
11	26.78	29	27.6	1	10.36	62	2.1	9	16.66	35	37.8	4	19.16	30	36.1	5
21	27.07	28	27.7	6	10.98	57	3.0	14	17.01	32	38.2	11	19.46	28	36.6	3
31	27.35	25	28.3	10	11.55	51	4.4	20	17.33	29	39.3	16	19.74	27	36.9	1
April 10	27.60	23	29.3	14	12.06	42	6.4	25	17.62	26	40.9	20	20.01	24	37.0	1
20	27.83	20	30.7	17	12.48	34	8.9	28	17.88	22	42.9	24	20.25	22	36.9	2
30	28.03	17	32.4	19	12.82	24	11.7	31	18.10	18	45.3	27	20.47	19	36.7	3
Mai 10	28.20	14	34.3	21	13.06	13	14.8	31	18.28	14	48.0	28	20.66	17	36.4	5
20	28.34	11	36.4	21	13.19	4	17.9	33	18.42	9	50.8	29	20.83	14	35.9	5
30	28.45	7	38.5	21	13.23	7	21.2	32	18.51	5	53.7	28	20.97	11	35.4	5
Juni 9	28.52	4	40.6	21	13.16	16	24.4	30	18.56	0	56.5	28	21.08	7	34.9	5
19	28.56	1	42.7	19	13.00	26	27.4	27	18.56	5	59.3	25	21.15	3	34.4	5
29	28.55	4	44.6	18	12.74	34	30.1	24	18.51	9	61.8	24	21.18	0	33.9	4
Juli 9	28.51	7	46.4	15	12.40	42	32.5	21	18.42	13	64.2	19	21.18	3	33.5	5
19	28.44	10	47.9	13	11.98	49	34.6	16	18.29	17	66.1	17	21.15	7	33.0	3
29	28.34	13	49.2	10	11.49	54	36.2	12	18.12	21	67.8	12	21.08	10	32.7	4
Aug. 8	28.21	16	50.2	7	10.95	59	37.4	6	17.91	23	69.0	9	20.98	12	32.3	3
18	28.05	17	50.9	3	10.36	61	38.0	2	17.68	24	69.9	3	20.86	14	32.0	2
28	27.88	18	51.2	1	9.75	63	38.2	4	17.44	26	70.2	1	20.72	16	31.8	2
Sept. 7	27.70	18	51.3	4	9.12	62	37.8	9	17.18	26	70.1	5	20.56	16	31.6	2
17	27.52	18	50.9	6	8.50	60	36.9	14	16.92	25	69.6	11	20.40	14	31.4	0
27	27.34	15	50.3	10	7.90	56	35.5	19	16.67	24	68.5	15	20.26	14	31.4	0
Okt. 7	27.19	13	49.3	14	7.34	51	33.6	24	16.43	20	67.0	19	20.12	10	31.4	1
17	27.06	10	47.9	17	6.83	43	31.2	28	16.23	15	65.1	23	20.02	7	31.5	3
27	26.96	5	46.2	20	6.40	34	28.4	31	16.08	11	62.8	27	19.95	2	31.8	4
Nov. 6	26.91	0	44.2	23	6.06	24	25.3	35	15.97	6	60.1	30	19.93	2	32.2	5
16	26.91	4	41.9	25	5.82	13	21.8	36	15.91	0	57.1	33	19.95	7	32.7	7
26	26.95	11	39.4	29	5.69	1	18.2	42	15.91	8	53.8	38	20.02	13	33.4	10
Dez. 6	27.06	15	36.5	28	5.68	12	14.0	38	15.99	13	50.0	34	20.15	17	34.4	11
16	27.21	20	33.7	28	5.80	24	10.2	37	16.12	19	46.6	35	20.32	22	35.5	12
26	27.41	24	30.9	27	6.04	35	6.5	35	16.31	25	43.1	33	20.54	26	36.7	12
36	27.65		28.2		6.39		3.0		16.56		39.8		20.80		37.9	
Mittl. Ort	26.18		50.5		8.96		30.8		15.94		64.9		18.70		22.7	
	618)				619)				621)				622)			

1912	α Triang. austr. 1ᵐ.9.				η Herculis. 3ᵐ.3.				Gr. 2377. 4ᵐ.9.				ε Scorpii. 2ᵐ.3.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	$16^h\,39^m$		68° 51′		$16^h\,39^m$		39° 4′		$16^h\,43^m$		56° 55′		$16^h\,44^m$		34° 8′	
	s		″		s		″		s		″		s		″	
Jan. 1	15.52	60	60.0	16	51.05	26	67.1	32	35.49	29	64.2	34	25.51	30	5.4	0
11	16.12	69	58.4	12	51.31	29	63.9	28	35.78	35	60.8	31	25.81	34	5.4	2
21	16.81	73	57.2	8	51.60	33	61.1	25	36.13	40	57.7	26	26.15	36	5.6	4
31	17.54	78	56.4	4	51.93	34	58.6	20	36.53	43	55.1	20	26.51	37	6.0	5
Febr. 10	18.32	79	56.0	0	52.27	35	56.6	15	36.96	46	53.1	15	26.88	38	6.5	6
20	19.11	80	56.0	5	52.62	36	55.1	8	37.42	46	51.6	8	27.26	37	7.1	7
März 1	19.91	79	56.5	8	52.98	35	54.3	3	37.88	46	50.8	1	27.63	37	7.8	8
11	20.70	75	57.3	12	53.33	33	54.0	4	38.34	44	50.7	6	28.00	36	8.6	8
21	21.45	73	58.5	15	53.66	32	54.4	9	38.78	42	51.3	12	28.36	34	9.4	8
31	22.18	67	60.0	18	53.98	29	55.3	15	39.20	38	52.5	17	28.70	32	10.2	8
April 10	22.85	62	61.8	21	54.27	26	56.8	19	39.58	33	54.2	22	29.02	31	11.0	9
20	23.47	55	63.9	23	54.53	23	58.7	23	39.91	28	56.4	27	29.33	27	11.9	9
30	24.02	48	66.2	24	54.76	19	61.0	25	40.19	22	59.1	29	29.60	24	12.8	9
Mai 10	24.50	40	68.6	26	54.95	14	63.5	27	40.41	15	62.0	31	29.84	22	13.7	8
20	24.90	30	71.2	27	55.09	11	66.2	28	40.56	10	65.1	32	30.06	17	14.5	9
30	25.20	21	73.9	26	55.20	6	69.0	28	40.66	3	68.3	31	30.23	14	15.4	9
Juni 9	25.41	11	76.5	26	55.26	2	71.8	27	40.69	4	71.4	31	30.37	10	16.3	8
19	25.52	1	79.1	25	55.28	2	74.5	26	40.65	10	74.5	29	30.47	5	17.1	8
29	25.53	9	81.6	23	55.26	7	77.1	23	40.55	16	77.4	25	30.52	1	17.9	7
Juli 9	25.44	19	83.9	20	55.19	12	79.4	20	40.39	22	79.9	23	30.53	3	18.6	7
19	25.25	27	85.9	18	55.07	15	81.4	17	40.17	26	82.2	18	30.50	8	19.3	5
29	24.98	36	87.7	14	54.92	18	83.1	13	39.91	31	84.0	14	30.42	11	19.8	4
Aug. 8	24.62	42	89.1	9	54.74	21	84.4	9	39.60	35	85.4	10	30.31	15	20.2	3
18	24.20	46	90.0	6	54.53	23	85.3	4	39.25	37	86.4	5	30.16	17	20.5	0
28	23.74	49	90.6	0	54.30	24	85.7	1	38.88	39	86.9	1	29.99	19	20.5	1
Sept. 7	23.25	49	90.6	4	54.06	25	85.8	5	38.49	38	86.8	6	29.80	19	20.4	3
17	22.76	47	90.2	10	53.81	23	85.3	8	38.11	39	86.2	10	29.61	18	20.1	4
27	22.29	43	89.2	13	53.58	22	84.5	14	37.72	35	85.2	16	29.43	17	19.7	6
Okt. 7	21.86	36	87.9	18	53.36	19	83.1	17	37.37	32	83.6	20	29.26	13	19.1	7
17	21.50	26	86.1	21	53.17	15	81.4	22	37.05	27	81.6	25	29.13	9	18.4	8
27	21.24	17	84.0	23	53.02	11	79.2	25	36.78	21	79.1	29	29.04	5	17.6	9
Nov. 6	21.07	4	81.7	25	52.91	6	76.7	29	36.57	15	76.2	32	28.99	1	16.7	8
16	21.03	9	79.2	25	52.85	0	73.8	31	36.42	7	73.0	35	29.00	7	15.9	7
26	21.12	24	76.7	26	52.85	7	70.7	36	36.35	2	69.5	40	29.07	15	15.2	7
Dez. 6	[3] 21.36	35	74.1	23	[3] 52.92	13	67.1	34	[1] 36.37	10	65.5	38	[1] 29.22	19	14.5	4
16	21.71	47	71.8	21	53.05	18	63.7	34	36.47	18	61.7	37	29.41	24	14.1	3
26	22.18	56	69.7	18	53.23	23	60.3	33	36.65	26	58.0	35	29.65	29	13.8	1
36	22.74		67.9		53.46		57.0		36.91		54.5		29.94		13.7	
Mittl. Ort	20.14		62.8		52.72		80.8		37.58		79.6		27.62		3.4	
	625)				626)				627)				628)			

1912	49 Herculis. 6ᵐ.5. AR.	Δ	Dekl. +	Δ	ζ² Scorpii. 3ᵐ.8. AR.	Δ	Dekl. −	Δ	ζ Arae. 3ᵐ.0. AR.	Δ	Dekl. −	Δ	κ Ophiuchi. 3ᵐ.2. AR.	Δ	Dekl. +	Δ
	16ʰ 48ᵐ		15° 6′		16ʰ 48ᵐ		42° 12′		16ʰ 51ᵐ		55° 51′		16ʰ 53ᵐ		9° 30′	
Jan. 1	2ˢ.84	23	65″.9	24	20ˢ.84	33	42″.4	5	16ˢ.89	41	7″.4	11	28ˢ.51	24	30″.5	22
11	3.07	27	63.5	23	21.17	36	41.9	2	17.30	46	6.3	9	28.75	26	28.3	20
21	3.34	29	61.2	21	21.53	40	41.7	0	17.76	50	5.4	5	29.01	29	26.3	19
31	3.63	31	59.1	17	21.93	40	41.7	2	18.26	51	4.9	3	29.30	30	24.4	16
Febr. 10	3.94	30	57.4	13	22.33	42	41.9	4	18.77	54	4.6	1	29.60	30	22.8	13
20	4.24	31	56.1	10	22.75	42	42.3	6	19.31	53	4.7	4	29.90	31	21.5	10
März 1	4.55	31	55.1	4	23.17	41	42.9	7	19.84	53	5.1	7	30.21	30	20.5	5
11	4.86	30	54.7	1	23.58	39	43.6	9	20.37	51	5.8	9	30.51	30	20.0	1
21	5.16	28	54.6	4	23.97	39	44.5	9	20.88	49	6.7	12	30.81	28	19.9	2
31	5.44	26	55.0	8	24.36	36	45.4	11	21.37	47	7.9	14	31.09	26	20.1	6
April 10	5.70	24	55.8	11	24.72	33	46.5	11	21.84	43	9.3	15	31.35	25	20.7	10
20	5.94	22	56.9	14	25.05	31	47.6	12	22.27	40	10.8	18	31.60	22	21.7	12
30	6.16	20	58.3	16	25.36	28	48.8	13	22.67	35	12.6	18	31.82	20	22.9	14
Mai 10	6.36	16	59.9	18	25.64	23	50.1	13	23.02	30	14.4	20	32.02	17	24.3	15
20	6.52	13	61.7	19	25.87	20	51.4	13	23.32	24	16.4	20	32.19	14	25.8	16
30	6.65	10	63.6	20	26.07	16	52.7	13	23.56	19	18.4	20	32.33	11	27.4	17
Juni 9	6.75	6	65.6	18	26.23	11	54.0	13	23.75	12	20.4	20	32.44	7	29.1	16
19	6.81	3	67.4	18	26.34	5	55.3	13	23.87	6	22.4	19	32.51	4	30.7	15
29	6.84	1	69.2	17	26.39	1	56.6	11	23.93	1	24.3	18	32.55	0	32.2	15
Juli 9	6.83	5	70.9	14	26.40	4	57.7	10	23.92	7	26.1	16	32.55	4	33.7	13
19	6.78	8	72.3	13	26.36	9	58.7	9	23.85	13	27.7	14	32.51	7	35.0	11
29	6.70	11	73.6	10	26.27	13	59.6	7	23.72	19	29.1	12	32.44	10	36.1	9
Aug. 8	6.59	14	74.6	7	26.14	16	60.3	4	23.53	24	30.3	8	32.34	13	37.0	7
18	6.45	15	75.3	5	25.98	20	60.7	3	23.29	27	31.1	4	32.21	15	37.7	5
28	6.30	17	75.8	2	25.78	20	61.0	1	23.02	29	31.5	1	32.06	16	38.2	2
Sept. 7	6.13	18	76.0	1	25.58	22	60.9	3	22.73	30	31.6	3	31.90	17	38.4	1
17	5.95	17	75.9	4	25.36	21	60.6	5	22.43	29	31.3	7	31.73	17	38.3	2
27	5.78	16	75.5	7	25.15	19	60.1	8	22.14	26	30.6	10	31.56	14	38.1	6
Okt. 7	5.62	13	74.8	10	24.96	15	59.3	10	21.88	23	29.6	14	31.42	13	37.5	8
17	5.49	10	73.8	14	24.81	11	58.3	11	21.65	16	28.2	16	31.29	10	36.7	11
27	5.39	6	72.4	16	24.70	6	57.2	12	21.49	10	26.6	18	31.19	6	35.6	13
Nov. 6	5.33	2	70.8	18	24.64	0	56.0	12	21.39	2	24.8	19	31.13	2	34.3	16
16	5.31	3	69.0	22	24.64	7	54.8	12	21.37	7	22.9	19	31.11	4	32.7	18
26	5.34	10	66.8	25	24.71	13	53.6	12	21.44	15	21.0	18	31.15	8	30.9	20
Dez. 6	5.44	13	64.3	24	24.84	19	52.4	10	21.59	26	19.2	20	31.23	14	28.9	23
16	5.57	18	61.9	25	25.03	25	51.4	8	21.85	31	17.2	16	31.37	18	26.6	22
26	5.75	22	59.4	24	25.28	31	50.6	6	22.16	38	15.6	14	31.55	22	24.4	22
36	5.97		57.0		25.59		50.0		22.54		14.2		31.77		22.2	
Mittl. Ort	4.43		76.2		23.20		41.2		19.98		7.8		30.13		40.0	
	629)				630)				631)				633)			

1912	ε Herculis. 3ᵐ.6. AR.		Dekl. +		η Ophiuchi. 2ᵐ.4. AR.		Dekl. −		ζ Draconis. 3ᵐ.0. AR.		Dekl. +		α Herculis. (3ᵐ.0). AR.		Dekl. +	
	16ʰ 56ᵐ		31° 2′		17ʰ 5ᵐ		15° 37′		17ʰ 8ᵐ		65° 48′		17ʰ 10ᵐ		14° 29′	
Jan. 1	53.66	23	67.0	30	17.98	25	6.3	9	28.92	29	68.0	35	36.39	22	13.4	23
11	53.89	27	64.0	28	18.23	27	7.2	9	29.21	37	64.5	32	36.61	25	11.1	23
21	54.16	29	61.2	24	18.50	30	8.1	9	29.58	45	61.3	28	36.86	28	8.8	20
31	54.45	32	58.8	20	18.80	32	9.0	9	30.03	51	58.5	23	37.14	29	6.8	17
Febr. 10	54.77	33	56.8	15	19.12	32	9.9	9	30.54	55	56.2	16	37.43	30	5.1	14
20	55.10	33	55.3	10	19.44	32	10.8	7	31.09	57	54.6	11	37.73	31	3.7	10
März 1	55.43	32	54.3	4	19.76	33	11.5	5	31.66	59	53.5	3	38.04	30	2.7	5
11	55.75	32	53.9	1	20.09	31	12.0	4	32.25	57	53.2	3	38.34	30	2.2	1
21	56.07	31	54.0	7	20.40	30	12.4	3	32.82	55	53.5	10	38.64	29	2.1	3
31	56.38	28	54.7	12	20.70	29	12.7	1	33.37	50	54.5	16	38.93	28	2.4	7
April 10	56.66	26	55.9	16	20.99	27	12.8	0	33.87	45	56.1	21	39.21	25	3.1	11
20	56.92	24	57.5	20	21.26	25	12.8	1	34.32	38	58.2	26	39.46	24	4.2	15
30	57.16	20	59.5	23	21.51	23	12.7	2	34.70	31	60.8	29	39.70	21	5.7	16
Mai 10	57.36	16	61.8	24	21.74	21	12.5	3	35.01	22	63.7	31	39.91	18	7.3	18
20	57.52	13	64.2	26	21.95	17	12.2	3	35.23	13	66.8	33	40.09	16	9.1	19
30	57.65	9	66.8	26	22.12	15	11.9	3	35.36	5	70.1	33	40.25	12	11.0	20
Juni 9	57.74	5	69.4	26	22.27	10	11.6	3	35.41	5	73.4	32	40.37	8	13.0	19
19	57.79	1	72.0	24	22.37	7	11.3	3	35.36	13	76.6	31	40.45	5	14.9	18
29	57.80	3	74.4	22	22.44	3	11.0	2	35.23	22	79.7	28	40.50	1	16.7	18
Juli 9	57.77	7	76.6	20	22.47	1	10.8	2	35.01	29	82.5	25	40.51	3	18.5	15
19	57.70	11	78.6	17	22.46	5	10.6	2	34.72	37	85.0	22	40.48	7	20.0	14
29	57.59	15	80.3	14	22.41	8	10.4	2	34.35	43	87.2	17	40.41	10	21.4	11
Aug. 8	57.44	17	81.7	10	22.33	12	10.2	1	33.92	48	88.9	12	40.31	12	22.5	9
18	57.27	19	82.7	6	22.21	13	10.1	2	33.44	51	90.1	8	40.19	16	23.4	6
28	57.08	21	83.3	2	22.08	16	9.9	1	32.93	55	90.9	3	40.03	17	24.0	3
Sept. 7	56.87	22	83.5	1	21.92	16	9.8	1	32.38	55	91.2	3	39.86	17	24.3	0
17	56.65	21	83.4	6	21.76	16	9.7	1	31.83	56	90.9	8	39.69	18	24.3	3
27	56.44	20	82.8	10	21.60	15	9.6	1	31.27	52	90.1	13	39.51	16	24.0	6
Okt. 7	56.24	17	81.8	14	21.45	12	9.5	1	30.75	50	88.8	18	39.35	15	23.4	8
17	56.07	14	80.4	18	21.33	9	9.4	1	30.25	43	87.0	22	39.20	11	22.6	12
27	55.93	10	78.6	22	21.24	5	9.5	1	29.82	37	84.8	28	39.09	8	21.4	15
Nov. 6	55.83	6	76.4	25	21.19	1	9.6	2	29.45	29	82.0	30	39.01	4	19.9	17
16	55.77	0	73.9	27	21.18	4	9.8	3	29.16	19	79.0	34	38.97	1	18.2	20
26	55.77	6	71.2	30	21.22	9	10.1	5	28.97	9	75.6	36	38.98	7	16.2	22
Dez. 6	55.83	12	68.2	33	21.31	16	10.6	6	28.88	2	72.0	41	39.05	12	14.0	25
16	55.95	16	64.9	31	21.47	19	11.2	7	28.90	13	67.9	38	39.17	16	11.5	24
26	56.11	21	61.8	31	21.66	23	11.9	8	29.03	23	64.1	35	39.33	20	9.1	24
36	56.32		58.7		21.89		12.7		29.26		60.6		39.53		6.7	
Mittl. Ort	55.34		79.4		19.79		0.3		31.77		82.6		38.05		23.7	
	634)				637)				639)				640)			

1912	δ Herculis. $3^m.0$				π Herculis. $3^m.1$				ϑ Ophiuchi. $3^m.2$				β Arae. $2^m.7$			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —	
	$17^h\ 11^m$		$24°\ 56'$		$17^h\ 11^m$		$36°\ 54'$		$17^h\ 16^m$		$24°\ 54'$		$17^h\ 17^m$		$55°\ 26'$	
Jan. 1	^{s}23.30	22	″21.0	28	^{s}57.10	22	″15.4	32	^{s}34.24	26	″50.3	3	^{s}55.80	37	″53.9	13
11	23.52	25	18.2	26	57.32	26	12.2	29	34.50	29	50.6	4	56.17	42	52.6	12
21	23.77	28	15.6	23	57.58	29	9.3	26	34.79	31	51.0	5	56.59	47	51.4	8
31	24.05	29	13.3	20	57.87	32	6.7	22	35.10	32	51.5	5	57.06	50	50.6	6
Febr. 10	24.34	31	11.3	16	58.19	33	4.5	16	35.42	34	52.0	5	57.56	51	50.0	3
20	24.65	32	9.7	10	58.52	34	2.9	11	35.76	34	52.5	5	58.07	53	49.7	1
März 1	24.97	32	8.7	5	58.86	34	1.8	5	36.10	35	53.0	5	58.60	52	49.8	2
11	25.29	31	8.2	0	59.20	34	1.3	1	36.45	33	53.5	4	59.12	52	50.0	6
21	25.60	30	8.2	5	59.54	32	1.4	6	36.78	33	53.9	4	59.64	51	50.6	8
31	25.90	28	8.7	10	59.86	31	2.0	12	37.11	31	54.3	2	60.15	48	51.4	10
April 10	26.18	26	9.7	13	60.17	28	3.2	17	37.42	30	54.5	3	60.63	46	52.4	12
20	26.44	24	11.0	18	60.45	26	4.9	21	37.72	28	54.8	2	61.09	42	53.6	15
30	26.68	22	12.8	20	60.71	22	7.0	25	38.00	25	55.0	2	61.51	39	55.1	15
Mai 10	26.90	18	14.8	23	60.93	18	9.5	26	38.25	23	55.2	2	61.90	34	56.6	18
20	27.08	15	17.1	23	61.11	14	12.1	28	38.48	20	55.4	2	62.24	28	58.4	18
30	27.23	11	19.4	24	61.25	10	14.9	28	38.68	16	55.6	2	62.52	23	60.2	19
Juni 9	27.34	7	21.8	24	61.35	6	17.7	28	38.84	12	55.8	2	62.75	17	62.1	19
19	27.41	4	24.2	23	61.41	1	20.5	27	38.96	9	56.0	3	62.92	10	64.0	19
29	27.45	1	26.5	21	61.42	3	23.2	25	39.05	4	56.3	2	63.02	4	65.9	19
Juli 9	27.44	5	28.6	19	61.39	8	25.7	22	39.09	0	56.5	3	63.06	4	67.8	17
19	27.39	8	30.5	17	61.31	12	27.9	20	39.09	4	56.8	2	63.02	10	69.5	15
29	27.31	12	32.2	14	61.19	15	29.9	16	39.05	8	57.0	2	62.92	15	71.0	13
Aug. 8	27.19	15	33.6	10	61.04	19	31.5	12	38.97	12	57.2	1	62.77	21	72.3	10
18	27.04	18	34.6	7	60.85	22	32.7	8	38.85	14	57.3	1	62.56	26	73.3	7
28	26.86	18	35.3	4	60.63	23	33.5	4	38.71	16	57.4	0	62.30	28	74.0	4
Sept. 7	26.68	20	35.7	1	60.40	24	33.9	1	38.55	17	57.4	1	62.02	30	74.4	0
17	26.48	20	35.6	4	60.16	24	33.8	5	38.38	17	57.3	2	61.72	29	74.4	4
27	26.28	19	35.2	7	59.92	23	33.3	10	38.21	16	57.1	2	61.43	28	74.0	8
Okt. 7	26.09	16	34.5	12	59.69	20	32.3	14	38.05	14	56.9	3	61.15	24	73.2	11
17	25.93	14	33.3	15	59.49	17	30.9	18	37.91	11	56.6	3	60.91	20	72.1	14
27	25.79	10	31.8	18	59.32	14	29.1	22	37.80	6	56.3	4	60.71	13	70.7	16
Nov. 6	25.69	5	30.0	22	59.18	8	26.9	26	37.74	1	55.9	3	60.58	6	69.1	18
16	25.64	1	27.8	24	59.10	3	24.3	28	37.73	3	55.6	2	60.52	2	67.3	19
26	25.63	5	25.4	27	59.07	3	21.5	32	37.76	9	55.4	1	60.54	11	65.4	19
Dez. 6	25.68	11	22.7	31	59.10	9	18.3	35	37.85	15	55.3	1	60.65	21	63.5	21
16	25.79	15	19.6	28	59.19	14	14.8	32	38.00	19	55.2	1	60.86	27	61.4	17
26	25.94	19	16.8	28	59.33	19	11.6	32	38.19	24	55.3	3	61.13	34	59.7	15
36	26.13		14.0		59.52		8.4		38.43		55.6		61.47		58.2	
Mittl. Ort	24.99		32.4		58.90		28.0		36.20		45.1		58.89		51.9	
	641)				643)				644)				645)			

1912	δ Arae. $3^m.6$. AR.		Dekl. —		α Arae. $2^m.8$. AR.		Dekl. —		λ Scorpii. $1^m.7$. AR.		Dekl. —		β Draconis. $2^m.7$. AR.		Dekl. +	
	$17^h\ 23^m$		60° 36′		$17^h\ 24^m$		49° 48′		$17^h\ 27^m$		37° 2′		$17^h\ 28^m$		52° 21′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.58	41	43.2	17	59.45	33	29.8	11	35.59	28	30.3	5	24.40	21	45.1	35
11	5.99	47	41.5	14	59.78	37	28.7	10	35.87	31	29.8	3	24.61	27	41.6	32
21	6.46	51	40.1	11	60.15	41	27.7	7	36.18	34	29.5	2	24.88	32	38.4	29
31	6.97	56	39.0	8	60.56	44	27.0	4	36.52	36	29.3	1	25.20	35	35.5	24
Febr. 10	7.53	58	38.2	5	61.00	46	26.6	3	36.88	38	29.2	1	25.55	39	33.1	19
20	8.11	60	37.7	1	61.46	46	26.3	0	37.26	39	29.3	2	25.94	41	31.2	13
März 1	8.71	60	37.6	2	61.92	47	26.3	3	37.65	38	29.5	3	26.35	42	29.9	6
11	9.31	59	37.8	4	62.39	46	26.6	4	38.03	38	29.8	4	26.77	42	29.3	0
21	9.90	58	38.2	8	62.85	46	27.0	6	38.41	38	30.2	4	27.19	40	29.3	7
31	10.48	56	39.0	11	63.31	43	27.6	8	38.79	36	30.6	5	27.59	38	30.0	13
April 10	11.04	53	40.1	13	63.74	42	28.4	10	39.15	34	31.1	6	27.97	35	31.3	18
20	11.57	49	41.4	15	64.16	38	29.4	12	39.49	33	31.7	6	28.32	31	33.1	23
30	12.06	44	42.9	18	64.54	36	30.6	13	39.82	30	32.3	7	28.63	27	35.4	27
Mai 10	12.50	39	44.7	19	64.90	31	31.9	14	40.12	26	33.0	8	28.90	22	38.1	30
20	12.89	33	46.6	20	65.21	27	33.3	15	40.38	24	33.8	8	29.12	16	41.1	31
30	13.22	26	48.6	21	65.48	22	34.8	16	40.62	19	34.6	9	29.28	11	44.2	32
Juni 9	13.48	19	50.7	22	65.70	17	36.4	16	40.81	15	35.5	9	29.39	4	47.4	32
19	13.67	11	52.9	21	65.87	11	38.0	16	40.96	10	36.4	9	29.43	1	50.6	31
29	13.78	4	55.0	21	65.98	5	39.6	16	41.06	6	37.3	9	29.42	7	53.7	29
Juli 9	13.82	5	57.1	20	66.03	1	41.2	14	41.12	0	38.2	8	29.35	13	56.6	27
19	13.77	11	59.1	17	66.02	7	42.6	14	41.12	4	39.0	8	29.22	19	59.3	23
29	13.66	19	60.8	16	65.95	13	44.0	12	41.08	9	39.8	7	29.03	23	61.6	20
Aug. 8	13.47	25	62.4	12	65.82	17	45.2	9	40.99	13	40.5	6	28.80	28	63.6	15
18	13.22	30	63.6	8	65.65	21	46.1	6	40.86	16	41.1	3	28.52	31	65.1	10
28	12.92	33	64.4	5	65.44	24	46.7	4	40.70	18	41.4	2	28.21	33	66.1	6
Sept. 7	12.59	35	64.9	1	65.20	26	47.1	0	40.52	20	41.6	1	27.88	35	66.7	1
17	12.24	35	65.0	4	64.94	25	47.1	3	40.32	20	41.7	2	27.53	34	66.8	4
27	11.89	33	64.6	8	64.69	24	46.8	6	40.12	19	41.5	5	27.19	34	66.4	9
Okt. 7	11.56	30	63.8	12	64.45	22	46.2	9	39.93	17	41.0	5	26.85	32	65.5	14
17	11.26	24	62.6	16	64.23	17	45.3	12	39.76	13	40.5	7	26.53	27	64.1	19
27	11.02	17	61.0	17	64.06	12	44.1	13	39.63	9	39.8	9	26.26	24	62.2	24
Nov. 6	10.85	9	59.3	19	63.94	5	42.8	16	39.54	3	38.9	9	26.02	18	59.8	28
16	10.76	1	57.4	22	63.89	2	41.2	16	39.51	2	38.0	9	25.84	11	57.0	31
26	10.77	10	55.2	21	63.91	9	39.6	16	39.53	8	37.1	9	25.73	4	53.9	34
Dez. 6	10.87	21	53.1	24	64.00	18	38.0	17	39.61	16	36.2	9	25.69	4	50.5	38
16	[13] 11.08	29	50.7	20	[13] 64.18	24	36.3	14	[14] 39.77	20	35.3	7	[14] 25.73	10	46.7	36
26	11.37	37	48.7	18	64.42	30	34.9	13	39.97	25	34.6	6	25.83	17	43.1	36
36	11.74		46.9		64.72		33.6		40.22		34.0		26.00		39.5	
Mittl. Ort	9.11		41.2		62.20		26.7		37.85		25.7		26.63		58.1	
	648)				651)				652)				653)			

1912	α Ophiuchi. 2ᵐ.1. AR.		α Ophiuchi. Dekl. +		ϑ Scorpii. 1ᵐ.9. AR.		ϑ Scorpii. Dekl. −	
	$17^h\ 30^m$		12° 37′		$17^h\ 30^m$		42° 56′	
Jan. 1	49.22	21	14.0	23	57.15	28	38.3	8
11	49.43	23	11.7	21	57.43	34	37.5	7
21	49.66	26	9.6	20	57.77	36	36.8	4
31	49.92	28	7.6	17	58.13	39	36.4	3
Febr. 10	50.20	29	5.9	14	58.52	41	36.1	1
20	50.49	30	4.5	10	58.93	41	36.0	0
März 1	50.79	31	3.5	5	59.34	42	36.0	2
11	51.10	30	3.0	2	59.76	41	36.2	3
21	51.40	29	2.8	3	60.17	41	36.5	5
31	51.69	29	3.1	7	60.58	39	37.0	6
April 10	51.98	27	3.8	10	60.97	38	37.6	7
20	52.25	24	4.8	13	61.35	35	38.3	8
30	52.49	23	6.1	16	61.70	32	39.1	10
Mai 10	52.72	20	7.7	17	62.02	29	40.1	10
20	52.92	18	9.4	19	62.31	25	41.1	11
30	53.10	14	11.3	19	62.56	21	42.2	12
Juni 9	53.24	10	13.2	19	62.77	16	43.4	13
19	53.34	7	15.1	18	62.93	11	44.7	12
29	53.41	3	16.9	18	63.04	7	45.9	12
Juli 9	53.44	1	18.7	15	63.11	0	47.1	12
19	53.43	5	20.2	14	63.11	5	48.3	10
29	53.38	9	21.6	12	63.06	9	49.3	10
Aug. 8	53.29	11	22.8	9	62.97	14	50.3	7
18	53.18	15	23.7	7	62.83	18	51.0	6
28	53.03	16	24.4	4	62.65	21	51.6	3
Sept. 7	52.87	17	24.8	1	62.44	22	51.9	0
17	52.70	18	24.9	2	62.22	22	51.9	2
27	52.52	17	24.7	4	62.00	21	51.7	5
Okt. 7	52.35	15	24.3	7	61.79	18	51.2	7
17	52.20	12	23.6	10	61.61	15	50.5	9
27	52.08	9	22.6	13	61.46	11	49.6	10
Nov. 6	51.99	5	21.3	16	61.35	4	48.6	12
16	51.94	1	19.7	18	61.31	1	47.4	13
26	51.93	4	17.9	20	61.32	9	46.1	12
Dez. 6	51.97	10	15.9	24	61.41	16	44.9	13
16	52.07	14	13.5	22	61.57	20	43.6	11
26	52.21	19	11.3	23	61.77	27	42.5	9
36	52.40		9.0		62.04		41.6	
Mittl. Ort	50.93		24.0		59.59		34.1	
	656)				654)			

1912	ξ Serpentis. 3ᵐ.5. AR.		ξ Serpentis. Dekl. −		ι Herculis. 3ᵐ.6. AR.		ι Herculis. Dekl. +	
	$17^h\ 32^m$		15° 20′		$17^h\ 36^m$		46° 2′	
Jan. 1	30.95	22	45.4	8	56.74	19	57.1	34
11	31.17	26	46.2	8	56.93	24	53.7	32
21	31.43	28	47.0	8	57.17	29	50.5	29
31	31.71	30	47.8	7	57.46	32	47.6	24
Febr. 10	32.01	31	48.5	7	57.78	35	45.2	19
20	32.32	32	49.2	6	58.13	37	43.3	13
März 1	32.64	32	49.8	4	58.50	37	42.0	8
11	32.96	32	50.2	2	58.87	38	41.2	0
21	33.28	31	50.4	1	59.25	37	41.2	6
31	33.59	30	50.5	0	59.62	35	41.8	11
April 10	33.89	29	50.5	2	59.97	33	42.9	17
20	34.18	27	50.3	3	60.30	29	44.6	22
30	34.45	25	50.0	3	60.59	26	46.8	25
Mai 10	34.70	23	49.7	4	60.85	22	49.3	29
20	34.93	20	49.3	4	61.07	17	52.2	30
30	35.13	16	48.9	4	61.24	12	55.2	31
Juni 9	35.29	14	48.5	5	61.36	7	58.3	31
19	35.43	9	48.0	3	61.43	2	61.4	31
29	35.52	5	47.7	3	61.45	3	64.5	28
Juli 9	35.57	1	47.4	3	61.42	9	67.3	26
19	35.58	3	47.1	2	61.33	14	69.9	24
29	35.55	6	46.9	1	61.19	18	72.3	19
Aug. 8	35.49	10	46.8	1	61.01	22	74.2	16
18	35.39	13	46.7	1	60.79	26	75.8	12
28	35.26	14	46.6	1	60.53	28	77.0	6
Sept. 7	35.12	17	46.5	1	60.25	29	77.6	3
17	34.95	17	46.4	0	59.96	29	77.9	3
27	34.78	16	46.4	1	59.67	29	77.6	8
Okt. 7	34.62	13	46.3	0	59.38	27	76.8	12
17	34.49	11	46.3	1	59.11	24	75.6	17
27	34.38	8	46.4	1	58.87	20	73.9	22
Nov. 6	34.30	3	46.5	3	58.67	15	71.7	26
16	34.27	2	46.8	3	58.52	9	69.1	29
26	34.29	7	47.1	4	58.43	3	66.2	32
Dez. 6	34.36	12	47.5	6	58.40	3	63.0	34
16	34.48	16	48.1	6	58.43	11	59.6	38
26	34.64	21	48.7	7	58.54	16	55.8	34
36	34.85		49.4		58.70		52.4	
Mittl. Ort	32.80		38.3		58.81		69.4	
	658)				663)			

1912	η Pavonis. 3ᵐ.5. AR.		Dekl. −		ω Draconis. 4ᵐ.9. AR.		Dekl. +		β Ophiuchi. 2ᵐ.8. AR.		Dekl. +		μ Herculis. 3ᵐ.3. AR.		Dekl. +	
	$17^h\ 37^m$		64° 40′		$17^h\ 37^m$		68° 47′		$17^h\ 39^m$		4° 35′		$17^h\ 42^m$		27° 45′	
Jan. 1	1.54	43	61.0	20	24.42	23	42.5	36	5.75	20	62.5	19	59.01	18	66.5	29
11	1.97	50	59.0	17	24.65	33	38.9	34	5.95	23	60.6	17	59.19	22	63.6	28
21	2.47	57	57.3	15	24.98	43	35.5	29	6.18	26	58.9	17	59.41	25	60.8	25
31	3.04	61	55.8	11	25.41	52	32.6	25	6.44	27	57.2	14	59.66	28	58.3	21
Febr. 10	3.65	65	54.7	7	25.93	57	30.1	20	6.71	29	55.8	12	59.94	30	56.2	17
20	4.30	67	54.0	4	26.50	62	28.1	14	7.00	30	54.6	9	60.24	31	54.5	12
März 1	4.97	68	53.6	1	27.12	64	26.7	6	7.30	31	53.7	5	60.55	32	53.3	8
11	5.65	67	53.5	2	27.76	64	26.1	0	7.61	30	53.2	2	60.87	32	52.5	2
21	6.32	67	53.7	6	28.40	63	26.1	6	7.91	29	53.0	2	61.19	31	52.3	4
31	6.99	64	54.3	9	29.03	60	26.7	13	8.20	28	53.2	5	61.50	30	52.7	9
April 10	7.63	61	55.2	12	29.63	54	28.0	18	8.48	28	53.7	8	61.80	28	53.6	13
20	8.24	57	56.4	16	30.17	47	29.8	24	8.76	25	54.5	11	62.08	27	54.9	18
30	8.81	52	58.0	17	30.64	39	32.2	28	9.01	24	55.6	12	62.35	24	56.7	20
Mai 10	9.33	47	59.7	19	31.03	30	35.0	30	9.25	21	56.8	14	62.59	21	58.7	24
20	9.80	39	61.6	21	31.33	21	38.0	32	9.46	19	58.2	15	62.80	17	61.1	25
30	10.19	32	63.7	22	31.54	11	41.2	34	9.65	15	59.7	16	62.97	15	63.6	25
Juni 9	10.51	23	65.9	23	31.65	0	44.6	33	9.80	12	61.3	15	63.12	10	66.1	26
19	10.74	15	68.2	24	31.65	10	47.9	33	9.92	8	62.8	15	63.22	5	68.7	25
29	10.89	6	70.6	23	31.55	21	51.2	31	10.00	5	64.3	14	63.27	2	71.2	23
Juli 9	10.95	4	72.9	21	31.34	29	54.3	28	10.05	0	65.7	13	63.29	3	73.5	22
19	10.91	12	75.0	20	31.05	39	57.1	24	10.05	3	67.0	11	63.26	7	75.7	20
29	10.79	21	77.0	18	30.66	46	59.5	21	10.02	8	68.1	9	63.19	10	77.7	16
Aug. 8	10.58	27	78.8	14	30.20	53	61.6	17	9.94	10	69.0	7	63.09	14	79.3	14
18	10.31	34	80.2	11	29.67	58	63.3	12	9.84	13	69.7	6	62.95	18	80.7	10
28	9.97	38	81.3	7	29.09	61	64.5	7	9.71	15	70.3	4	62.77	19	81.7	6
Sept. 7	9.59	41	82.0	2	28.48	64	65.2	2	9.56	17	70.7	1	62.58	21	82.3	2
17	9.18	42	82.2	2	27.84	65	65.4	3	9.39	16	70.8	1	62.37	21	82.5	1
27	8.76	40	82.0	7	27.19	64	65.1	9	9.23	17	70.7	3	62.16	21	82.4	6
Okt. 7	8.36	36	81.3	11	26.55	60	64.2	13	9.06	14	70.4	5	61.95	18	81.8	9
17	8.00	30	80.2	15	25.95	55	62.9	19	8.92	12	69.9	7	61.77	17	80.9	14
27	7.70	23	78.7	18	25.40	49	61.0	23	8.80	9	69.2	9	61.60	13	79.5	17
Nov. 6	7.47	13	76.9	21	24.91	40	58.7	28	8.71	5	68.3	12	61.47	9	77.8	21
16	7.34	4	74.8	23	24.51	31	55.9	32	8.66	0	67.1	14	61.38	4	75.7	24
26	7.30	7	72.5	23	24.20	19	52.7	34	8.66	4	65.7	15	61.34	1	73.3	26
Dez. 6	7.37	18	70.2	24	24.01	8	49.3	36	8.70	9	64.2	17	61.35	6	70.7	28
16	7.55	31	67.8	25	23.93	5	45.7	40	8.79	15	62.5	19	61.41	12	67.9	32
26	[16] 7.86	38	65.3	21	[16] 23.98	16	41.7	37	[17] 8.94	18	60.6	19	[17] 61.53	16	64.7	29
36	8.24		63.2		24.14		38.0		9.12		58.7		61.69		61.8	
Mittl. Ort	5.55		58.0		27.87		55.4		7.49		71.7		60.81		77.5	
	661)				664)				665)				667)			

1912	ψ Drac. austr. $4^m.7$. AR.		Dekl. +		ξ Draconis. $3^m.6$. AR.		Dekl. +		ϑ Herculis. $3^m.8$. AR.		Dekl. +		35 Draconis. $5^m.1$. AR.		Dekl. +	
	$17^h\ 43^m$		72° 11'		$17^h\ 51^m$		56° 52'		$17^h\ 53^m$		37° 15'		$17^h\ 53^m$		76° 58'	
Jan. 1	25.98	23	19.7	36	57.86	17	58.3	35	12.13	17	30.6	32	17.73	21	18.6	36
11	26.21	35	16.1	33	58.03	25	54.8	34	12.30	22	27.4	30	17.94	40	15.0	34
21	26.56	47	12.8	31	58.28	30	51.4	31	12.52	25	24.4	28	18.34	56	11.6	30
31	27.03	57	9.7	26	58.58	36	48.3	26	12.77	28	21.6	23	18.90	71	8.6	26
Febr. 10	27.60	65	7.1	20	58.94	40	45.7	21	13.05	32	19.3	19	19.61	83	6.0	21
20	28.25	71	5.1	14	59.34	43	43.6	15	13.37	32	17.4	14	20.44	91	3.9	15
März 1	28.96	74	3.7	8	59.77	45	42.1	9	13.69	34	16.0	8	21.35	97	2.4	9
11	29.70	75	2.9	0	60.22	46	41.2	2	14.03	34	15.2	2	22.32	99	1.5	2
21	30.45	73	2.9	6	60.68	44	41.0	5	14.37	34	15.0	3	23.31	97	1.3	5
31	31.18	70	3.5	12	61.12	43	41.5	11	14.71	32	15.3	10	24.28	93	1.8	11
April 10	31.88	63	4.7	17	61.55	40	42.6	17	15.03	31	16.3	15	25.21	85	2.9	17
20	32.51	55	6.4	23	61.95	37	44.3	22	15.34	29	17.8	19	26.06	74	4.6	21
30	33.06	46	8.7	27	62.32	31	46.5	26	15.63	26	19.7	23	26.80	62	6.7	26
Mai 10	33.52	36	11.4	30	62.63	27	49.1	29	15.89	22	22.0	26	27.42	47	9.3	29
20	33.88	23	14.4	32	62.90	20	52.0	32	16.11	19	24.6	28	27.89	32	12.2	33
30	34.11	12	17.6	33	63.10	14	55.2	33	16.30	15	27.4	29	28.21	15	15.5	33
Juni 9	34.23	0	20.9	33	63.24	8	58.5	33	16.45	10	30.3	30	28.36	1	18.8	33
19	34.23	13	24.2	33	63.32	0	61.8	33	16.55	6	33.3	28	28.35	19	22.1	32
29	34.10	24	27.5	31	63.32	6	65.1	32	16.61	0	36.1	28	28.16	34	25.3	32
Juli 9	33.86	36	30.6	28	63.26	13	68.3	28	16.61	4	38.9	25	27.82	50	28.5	29
19	33.50	47	33.4	25	63.13	20	71.1	26	16.57	8	41.4	23	27.32	64	31.4	25
29	33.03	55	35.9	22	62.93	25	73.7	22	16.49	13	43.7	20	26.68	76	33.9	23
Aug. 8	32.48	63	38.1	17	62.68	30	75.9	18	16.36	17	45.7	17	25.92	88	36.2	19
18	31.85	70	39.8	13	62.38	34	77.7	14	16.19	20	47.4	12	25.04	96	38.1	14
28	31.15	75	41.1	7	62.04	38	79.1	10	15.99	22	48.6	8	24.08	102	39.5	9
Sept. 7	30.40	77	41.8	3	61.66	39	80.1	4	15.77	25	49.4	4	23.06	107	40.4	4
17	29.63	78	42.1	2	61.27	40	80.5	1	15.52	24	49.8	0	21.99	109	40.8	1
27	28.85	77	41.9	8	60.87	40	80.4	6	15.28	24	49.8	6	20.90	108	40.7	6
Okt. 7	28.08	74	41.1	13	60.47	38	79.8	11	15.04	23	49.2	9	19.82	104	40.1	11
17	27.34	68	39.8	18	60.09	34	78.7	17	14.81	20	48.3	14	18.78	97	39.0	16
27	26.66	60	38.0	23	59.75	30	77.0	21	14.61	17	46.9	19	17.81	88	37.4	21
Nov. 6	26.06	52	35.7	27	59.45	25	74.9	26	14.44	13	45.0	22	16.93	77	35.3	26
16	25.54	40	33.0	31	59.20	18	72.3	29	14.31	7	42.8	26	16.16	62	32.7	30
26	25.14	27	29.9	34	59.02	10	69.4	33	14.24	3	40.2	28	15.54	46	29.7	32
Dez. 6	24.87	14	26.5	36	58.92	3	66.1	35	14.21	3	37.4	31	15.08	27	26.5	35
16	24.73	0	22.9	40	58.89	6	62.6	40	14.24	10	34.3	35	14.81	10	23.0	39
26	[17] 24.73	15	18.9	36	[19] 58.95	13	58.6	36	[20] 14.34	14	30.8	33	[20] 14.71	12	19.1	36
36	24.88		15.3		59.08		55.0		14.48		27.5		14.83		15.5	
Mittl. Ort	30.03		32.3		60.42		70.2		14.08		41.8		23.20		30.4	
	670)				671)				672)				675)			

1912	ν Ophiuchi. $3^m.4$.				γ Draconis. $2^m.3$.				67 Ophiuchi. $4^m.0$.				γ Sagittarii. $3^m.0$.			
	AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$17^h\ 54^m$		$9°\ 45'$		$17^h\ 54^m$		$51°\ 29'$		$17^h\ 56^m$		$2°\ 55'$		$18^h\ 0^m$		$30°\ 25'$	
	s		"		s		"		s		"		s		"	
Jan. 1	9.06	19	57.2	9	31.42	16	44.2	35	12.48	18	56.9	17	7.14	23	40.9	3
11	9.25	24	58.1	10	31.58	23	40.7	33	12.66	22	55.2	17	7.37	26	40.6	2
21	9.49	26	59.1	10	31.81	28	37.4	30	12.88	25	53.5	15	7.63	29	40.4	1
31	9.75	28	60.1	8	32.09	33	34.4	27	13.13	26	52.0	13	7.92	32	40.3	1
Febr. 10	10.03	30	60.9	7	32.42	36	31.7	21	13.39	29	50.7	11	8.24	33	40.2	0
20	10.33	30	61.6	6	32.78	39	29.6	15	13.68	29	49.6	9	8.57	35	40.2	0
März 1	10.63	31	62.2	3	33.17	40	28.1	9	13.97	30	48.7	5	8.92	35	40.2	0
11	10.94	31	62.5	2	33.57	41	27.2	2	14.27	30	48.2	1	9.27	36	40.2	1
21	11.25	31	62.7	1	33.98	41	27.0	4	14.57	30	48.1	1	9.63	35	40.3	0
31	11.56	30	62.6	2	34.39	38	27.4	11	14.87	29	48.2	5	9.98	35	40.3	0
April 10	11.86	29	62.4	5	34.77	37	28.5	16	15.16	28	48.7	8	10.33	33	40.3	1
20	12.15	28	61.9	6	35.14	33	30.1	21	15.44	27	49.5	10	10.66	32	40.4	1
30	12.43	25	61.3	7	35.47	30	32.2	26	15.71	25	50.5	13	10.98	31	40.5	2
Mai 10	12.68	24	60.6	7	35.77	25	34.8	28	15.96	22	51.8	14	11.29	28	40.7	2
20	12.92	21	59.9	9	36.02	20	37.6	31	16.18	20	53.2	14	11.57	25	40.9	2
30	13.13	18	59.0	8	36.22	14	40.7	32	16.38	17	54.6	15	11.82	21	41.1	4
Juni 9	13.31	14	58.2	8	36.36	9	43.9	33	16.55	14	56.1	15	12.03	18	41.5	4
19	13.45	12	57.4	7	36.45	3	47.2	32	16.69	10	57.6	15	12.21	13	41.9	4
29	13.57	6	56.7	7	36.48	4	50.4	31	16.79	6	59.1	14	12.34	9	42.3	5
Juli 9	13.63	3	56.0	6	36.44	9	53.5	28	16.85	2	60.5	12	12.43	4	42.8	6
19	13.66	2	55.4	5	36.35	15	56.3	26	16.87	2	61.7	11	12.47	1	43.4	5
29	13.64	5	54.9	4	36.20	20	58.9	22	16.85	6	62.8	9	12.46	5	43.9	5
Aug. 8	13.59	9	54.5	3	36.00	25	61.1	18	16.79	10	63.7	7	12.41	10	44.4	5
18	13.50	12	54.2	2	35.75	29	62.9	14	16.69	12	64.4	6	12.31	13	44.9	4
28	13.38	14	54.0	2	35.46	31	64.3	10	16.57	15	65.0	4	12.18	16	45.3	3
Sept. 7	13.24	16	53.8	0	35.15	34	65.3	4	16.42	16	65.4	2	12.02	17	45.6	1
17	13.08	16	53.8	0	34.81	34	65.7	0	16.26	16	65.6	0	11.85	19	45.7	1
27	12.92	16	53.8	1	34.47	34	65.7	6	16.10	17	65.6	2	11.66	18	45.8	2
Okt. 7	12.76	15	53.9	2	34.13	32	65.1	11	15.93	15	65.4	5	11.48	16	45.6	2
17	12.61	12	54.1	2	33.81	29	64.0	16	15.78	12	64.9	6	11.32	14	45.4	3
27	12.49	9	54.3	4	33.52	25	62.4	20	15.66	10	64.3	8	11.18	11	45.1	5
Nov. 6	12.40	5	54.7	5	33.27	20	60.4	25	15.56	6	63.5	10	11.07	6	44.6	4
16	12.35	0	55.2	6	33.07	15	57.9	29	15.50	1	62.5	12	11.01	0	44.2	6
26	12.35	4	55.8	7	32.92	8	55.0	31	15.49	3	61.3	14	11.01	4	43.6	5
Dez. 6	12.39	9	56.5	8	32.84	1	51.9	34	15.52	7	59.9	16	11.05	10	43.1	5
16	12.48	15	57.3	9	32.83	7	48.5	39	15.59	14	58.3	18	11.15	16	42.6	5
26	[20] 12.63	18	58.2	10	[20] 32.90	13	44.6	35	[20] 15.73	16	56.5	17	[21] 11.31	20	42.1	3
36	12.81		59.2		33.03		41.1		15.89		54.8		11.51		41.8	
Mittl. Ort	10.88		48.8		33.74		55.8		14.24		66.2		9.24		33.7	
	673)				676)				677)				679)			

1912	72 Ophiuchi. $3^m.6$				o Herculis. $3^m.8$				μ Sagittarii. $3^m.9$				η Serpentis. $3^m.2$			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —	
	$18^h\ 3^m$		$9°\ 32'$		$18^h\ 4^m$		$28°\ 44'$		$18^h\ 8^m$		$21°\ 4'$		$18^h\ 16^m$		$2°\ 55'$	
Jan. 1	$8^s.87$	18	$52''.5$	21	$4^s.70$	16	$48''.5$	29	$28^s.08$	20	$66''.0$	2	$43^s.57$	16	$30''.0$	14
11	9.05	20	50.4	19	4.86	20	45.6	28	28.28	23	66.2	3	43.73	21	31.4	13
21	9.25	24	48.5	18	5.06	24	42.8	25	28.51	27	66.5	3	43.94	23	32.7	12
31	9.49	26	46.7	16	5.30	26	40.3	22	28.78	28	66.8	2	44.17	26	33.9	10
Febr. 10	9.75	28	45.1	13	5.56	29	38.1	18	29.06	31	67.0	3	44.43	27	34.9	9
20	10.03	28	43.8	9	5.85	30	36.3	14	29.37	31	67.3	2	44.70	29	35.8	7
März 1	10.31	30	42.9	6	6.15	32	34.9	8	29.68	33	67.5	1	44.99	30	36.5	4
11	10.61	30	42.3	2	6.47	32	34.1	2	30.01	33	67.6	0	45.29	30	36.9	1
21	10.91	30	42.1	2	6.79	31	33.9	2	30.34	33	67.6	1	45.59	30	37.0	2
31	11.21	29	42.3	6	7.10	31	34.1	9	30.67	32	67.5	2	45.89	30	36.8	4
April 10	11.50	29	42.9	9	7.41	30	35.0	12	30.99	31	67.3	2	46.19	29	36.4	7
20	11.79	26	43.8	13	7.71	28	36.2	18	31.30	31	67.1	3	46.48	28	35.7	9
30	12.05	26	45.1	15	7.99	26	38.0	20	31.61	28	66.8	3	46.76	26	34.8	10
Mai 10	12.31	22	46.6	16	8.25	23	40.0	24	31.89	27	66.5	3	47.02	25	33.8	12
20	12.53	21	48.2	18	8.48	20	42.4	25	32.16	24	66.2	3	47.27	22	32.6	12
30	12.74	17	50.0	19	8.68	16	44.9	27	32.40	20	65.9	3	47.49	19	31.4	13
Juni 9	12.91	13	51.9	18	8.84	12	47.6	27	32.60	18	65.6	2	47.68	16	30.1	12
19	13.04	10	53.7	19	8.96	8	50.3	26	32.78	13	65.4	1	47.84	12	28.9	12
29	13.14	6	55.6	17	9.04	4	52.9	25	32.91	8	65.3	0	47.96	8	27.7	11
Juli 9	13.20	2	57.3	16	9.08	1	55.4	24	32.99	5	65.3	0	48.04	4	26.6	9
19	13.22	2	58.9	14	9.07	5	57.8	21	33.04	0	65.3	0	48.08	0	25.7	9
29	13.20	6	60.3	12	9.02	10	59.9	19	33.04	4	65.3	1	48.08	4	24.8	7
Aug. 8	13.14	10	61.5	10	8.92	13	61.8	15	33.00	8	65.4	2	48.04	8	24.1	6
18	13.04	12	62.5	7	8.79	17	63.3	12	32.92	12	65.6	1	47.96	11	23.5	4
28	12.92	15	63.2	6	8.62	19	64.5	9	32.80	14	65.7	1	47.85	13	23.1	3
Sept. 7	12.77	17	63.8	2	8.43	20	65.4	4	32.66	16	65.8	1	47.72	16	22.8	2
17	12.60	18	64.0	1	8.23	21	65.8	1	32.50	17	65.9	0	47.56	16	22.6	1
27	12.42	17	64.1	3	8.02	22	65.9	4	32.33	17	65.9	1	47.40	17	22.7	1
Okt. 7	12.25	15	63.8	5	7.80	20	65.5	8	32.16	15	66.0	1	47.23	15	22.8	3
17	12.10	14	63.3	7	7.60	17	64.7	11	32.01	13	65.9	0	47.08	13	23.1	4
27	11.96	11	62.6	11	7.43	15	63.6	16	31.88	10	65.9	1	46.95	11	23.5	7
Nov. 6	11.85	7	61.5	12	7.28	11	62.0	19	31.78	6	65.8	1	46.84	7	24.2	7
16	11.78	3	60.3	15	7.17	6	60.1	22	31.72	1	65.7	0	46.77	3	24.9	9
26	11.75	2	58.8	17	7.11	1	57.9	25	31.71	3	65.7	0	46.74	2	25.8	10
Dez. 6	11.77	6	57.1	19	7.10	3	55.4	28	31.74	8	65.7	1	46.76	6	26.8	12
16	11.83	12	55.2	22	7.13	10	52.6	31	31.82	15	65.8	1	46.82	11	28.0	13
26	[22] 11.95	15	53.0	20	[22] 7.23	13	49.5	29	[23] 31.97	18	65.9	2	[25] 46.93	15	29.3	13
36	12.10		51.0		7.36		46.6		32.15		66.1		47.08		30.6	
Mittl. Ort	10.64		62.2		6.57		59.0		30.02		57.8		45.36		20.8	
	680)				681)				682)				688)			

1912	ε Sagittarii. 1m.9. AR.		Dekl. —		109 Herculis. 3m.9. AR.		Dekl. +		α Telescopii. 3m.7. AR.		Dekl. —		χ Draconis. 3m.6. AR.		Dekl. +	
	18h 18m		34° 25′		18h 19m		21° 43′		18h 20m		46° 1′		18h 22m		72° 41′	
Jan. 1	17.68	21	45.2	6	55.03	15	34.4	26	24.37	24	11.5	13	34.10	11	31.9	36
11	17.89	25	44.6	5	55.18	18	31.8	25	24.61	29	10.2	12	34.21	24	28.3	35
21	18.14	29	44.1	5	55.36	23	29.3	23	24.90	33	9.0	12	34.45	37	24.8	33
31	18.43	31	43.6	4	55.59	24	27.0	20	25.23	36	7.8	9	34.82	50	21.5	28
Febr. 10	18.74	34	43.2	4	55.83	27	25.0	17	25.59	40	6.9	8	35.32	59	18.7	24
20	19.08	35	42.8	3	56.10	29	23.3	13	25.99	41	6.1	6	35.91	67	16.3	19
März 1	19.43	37	42.5	1	56.39	30	22.0	8	26.40	42	5.5	5	36.58	73	14.4	13
11	19.80	37	42.4	2	56.69	31	21.2	3	26.82	43	5.0	2	37.31	76	13.1	6
21	20.17	37	42.2	1	57.00	30	20.9	2	27.25	44	4.8	2	38.07	77	12.5	2
31	20.54	37	42.1	1	57.30	31	21.1	7	27.69	43	4.6	1	38.84	75	12.7	7
April 10	20.91	36	42.0	0	57.61	29	21.8	11	28.12	42	4.7	2	39.59	70	13.4	13
20	21.27	34	42.0	1	57.90	29	22.9	15	28.54	41	4.9	4	40.29	64	14.7	19
30	21.61	33	42.1	1	58.19	26	24.4	19	28.95	38	5.3	6	40.93	57	16.6	24
Mai 10	21.94	31	42.2	2	58.45	24	26.3	21	29.33	35	5.9	7	41.50	46	19.0	28
20	22.25	27	42.4	4	58.69	21	28.4	23	29.68	33	6.6	9	41.96	35	21.8	31
30	22.52	23	42.8	4	58.90	18	30.7	24	30.01	27	7.5	11	42.31	24	24.9	33
Juni 9	22.76	21	43.2	6	59.08	14	33.1	24	30.28	24	8.6	12	42.55	12	28.2	33
19	22.97	15	43.8	6	59.22	11	35.5	24	30.52	18	9.8	12	42.67	2	31.5	34
29	23.12	11	44.4	7	59.33	6	37.9	24	30.70	12	11.0	14	42.65	13	34.9	33
Juli 9	23.23	6	45.1	8	59.39	2	40.3	21	30.82	6	12.4	13	42.52	27	38.2	32
19	23.29	1	45.9	7	59.41	3	42.4	20	30.88	0	13.7	14	42.25	38	41.4	29
29	23.30	4	46.6	8	59.38	6	44.4	18	30.88	5	15.1	13	41.87	48	44.3	26
Aug. 8	23.26	9	47.4	7	59.32	11	46.2	14	30.83	11	16.4	11	41.39	58	46.9	23
18	23.17	13	48.1	6	59.21	13	47.6	12	30.72	15	17.5	10	40.81	67	49.2	18
28	23.04	15	48.7	4	59.08	17	48.8	8	30.57	20	18.5	7	40.14	72	51.0	14
Sept. 7	22.89	19	49.1	3	58.91	18	49.6	6	30.37	22	19.2	6	39.42	78	52.4	9
17	22.70	19	49.4	2	58.73	19	50.2	1	30.15	24	19.8	2	38.64	80	53.3	4
27	22.51	19	49.6	0	58.54	20	50.3	2	29.91	24	20.0	1	37.84	80	53.7	2
Okt. 7	22.32	19	49.6	2	58.34	18	50.1	6	29.67	22	19.9	4	37.04	79	53.5	7
17	22.13	15	49.4	4	58.16	17	49.5	9	29.45	19	19.5	6	36.25	75	52.8	12
27	21.98	13	49.0	5	57.99	13	48.6	13	29.26	16	18.9	9	35.50	70	51.6	17
Nov. 6	21.85	8	48.5	6	57.86	11	47.3	16	29.10	11	18.0	11	34.80	61	49.9	23
16	21.77	3	47.9	7	57.75	6	45.7	19	28.99	4	16.9	13	34.19	51	47.6	26
26	21.74	3	47.2	8	57.69	1	43.8	22	28.95	1	15.6	14	33.68	39	45.0	31
Dez. 6	21.77	8	46.4	7	57.68	3	41.6	23	28.96	8	14.2	14	33.29	27	41.9	33
16	21.85	14	45.7	8	57.71	8	39.3	25	29.04	14	12.8	14	33.02	13	38.6	35
26	21.99	19	44.9	7	57.79	13	36.8	29	29.18	23	11.4	16	32.89	1	35.1	40
36	22.18		44.2		57.92		33.9		29.41		9.8		32.90		31.1	
Mittl. Ort	19.85		37.2		56.86		44.3		26.91		3.8		38.67		41.7	
	689)				690)				691)				695)			

1912	*b* Draconis. $5^m.1$. AR.		Dekl. +		ζ Pavonis. $4^m.0$. AR.		Dekl. −		α Lyrae*). 1^m. AR.		Dekl. +		110 Herculis. $4^m.1$. AR.		Dekl. +	
	$18^h\ 22^m$		58° 44′		$18^h\ 32^m$		71° 30′		$18^h\ 33^m$		38° 41′		$18^h\ 41^m$		20° 27′	
Jan. 1	34.72	11	48.2	37	40.40	39	26.1	28	55.44	12	54.7	32	50.60	13	31.7	25
11	34.83	20	44.5	35	40.79	50	23.3	25	55.56	17	51.5	31	50.73	17	29.2	24
21	35.03	26	41.0	32	41.29	61	20.8	24	55.73	21	48.4	28	50.90	20	26.8	22
31	35.29	33	37.8	28	41.90	69	18.4	20	55.94	26	45.6	26	51.10	23	24.6	20
Febr. 10	35.62	38	35.0	24	42.59	76	16.4	17	56.20	28	43.0	21	51.33	25	22.6	17
20	36.00	42	32.6	18	43.35	82	14.7	14	56.48	31	40.9	16	51.58	27	20.9	13
März 1	36.42	45	30.8	12	44.17	85	13.3	10	56.79	33	39.3	11	51.85	29	19.6	8
11	36.87	47	29.6	6	45.02	89	12.3	7	57.12	34	38.2	5	52.14	30	18.8	4
21	37.34	47	29.0	2	45.91	89	11.6	2	57.46	34	37.7	1	52.44	31	18.4	1
31	37.81	46	29.2	7	46.80	88	11.4	1	57.80	35	37.8	7	52.75	30	18.5	6
April 10	38.27	44	29.9	14	47.68	87	11.5	5	58.15	33	38.5	13	53.05	30	19.1	10
20	38.71	41	31.3	20	48.55	83	12.0	9	58.48	31	39.8	18	53.35	29	20.1	15
30	39.12	37	33.3	24	49.38	78	12.9	12	58.79	30	41.6	22	53.64	28	21.6	17
Mai 10	39.49	31	35.7	28	50.16	71	14.1	16	59.09	26	43.8	25	53.92	26	23.3	21
20	39.80	26	38.5	31	50.87	63	15.7	19	59.35	23	46.3	28	54.18	23	25.4	23
30	40.06	19	41.6	33	51.50	54	17.6	21	59.58	19	49.1	30	54.41	20	27.7	23
Juni 9	40.25	12	44.9	34	52.04	44	19.7	23	59.77	15	52.1	31	54.61	16	30.0	25
19	40.37	5	48.3	34	52.48	33	22.0	24	59.92	10	55.2	30	54.77	13	32.5	24
29	40.42	2	51.7	33	52.81	20	24.4	26	60.02	5	58.2	30	54.90	8	34.9	24
Juli 9	40.40	10	55.0	31	53.01	8	27.0	25	60.07	1	61.2	28	54.98	4	37.3	22
19	40.30	17	58.1	29	53.09	5	29.5	25	60.06	5	64.0	27	55.02	0	39.5	20
29	40.13	23	61.0	26	53.04	18	32.0	23	60.01	10	66.7	23	55.02	5	41.5	18
Aug. 8	39.90	29	63.6	22	52.86	28	34.3	20	59.91	14	69.0	20	54.97	9	43.3	16
18	39.61	34	65.8	18	52.58	39	36.3	18	59.77	19	71.0	16	54.88	12	44.9	12
28	39.27	38	67.6	13	52.19	47	38.1	14	59.58	21	72.6	13	54.76	15	46.1	10
Sept. 7	38.89	41	68.9	9	51.72	53	39.5	9	59.37	24	73.9	9	54.61	18	47.1	7
17	38.48	42	69.8	4	51.19	57	40.4	5	59.13	25	74.8	3	54.43	18	47.8	3
27	38.06	43	70.2	2	50.62	58	40.9	1	58.88	25	75.1	1	54.25	20	48.1	1
Okt. 7	37.63	42	70.0	7	50.04	57	40.8	5	58.63	25	75.0	5	54.05	18	48.0	4
17	37.21	39	69.3	12	49.47	51	40.3	11	58.38	22	74.5	10	53.87	17	47.6	8
27	36.82	36	68.1	18	48.96	44	39.2	15	58.16	20	73.5	15	53.70	15	46.8	11
Nov. 6	36.46	30	66.3	22	48.52	35	37.7	20	57.96	16	72.0	19	53.55	11	45.7	14
16	36.16	24	64.1	26	48.17	23	35.7	22	57.80	12	70.1	23	53.44	7	44.3	17
26	35.92	17	61.5	30	47.94	10	33.5	25	57.68	7	67.8	26	53.37	3	42.6	20
Dez. 6	35.75	10	58.5	33	47.84	3	31.0	27	57.61	2	65.2	29	53.34	1	40.6	22
16	35.65	1	55.2	35	47.87	17	28.3	27	57.59	4	62.3	31	53.35	5	38.4	24
26	35.64	8	51.7	40	48.04	34	25.6	30	57.63	10	59.2	33	53.40	11	36.0	26
36	[26] 35.72		47.7		[29] 48.38		22.6		[29] 57.73		55.9		[31] 53.51		33.4	
Mittl. Ort	37.54		58.0		45.47		18.1		57.53		64.3		52.45		41.1	
	694)				698)				699)				703)			

*) Die jährliche Parallaxe ist bereits angebracht.

1912	λ Pavonis. 4ᵐ.3.				β Lyrae. (3ᵐ.3).				σ Sagittarii. 2ᵐ.1.				ο Draconis. 4ᵐ.6.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +	
	$18^h 44^m$		62° 17′		$18^h 46^m$		33° 15′		$18^h 49^m$		26° 24′		$18^h 49^m$		59° 16′	
Jan. 1	0.40	29	31.5	25	47.84	11	27.2	33	46.56	17	34.7	4	51.25	7	42.1	38
11	0.69	35	29.0	22	47.95	15	23.9	29	46.73	20	34.3	2	51.32	15	38.3	35
21	1.04	42	26.8	21	48.10	20	21.0	27	46.93	24	34.1	2	51.47	22	34.8	33
31	1.46	48	24.7	18	48.30	23	18.3	25	47.17	27	33.9	3	51.69	28	31.5	30
Febr. 10	1.94	52	22.9	17	48.53	26	15.8	20	47.44	29	33.6	3	51.97	35	28.5	26
20	2.46	57	21.2	13	48.79	29	13.8	16	47.73	31	33.3	3	52.32	40	25.9	21
März 1	3.03	59	19.9	11	49.08	31	12.2	11	48.04	32	33.0	3	52.72	43	23.8	14
11	3.62	61	18.8	7	49.39	32	11.1	6	48.36	33	32.7	4	53.15	47	22.4	9
21	4.23	62	18.1	5	49.71	32	10.5	0	48.69	34	32.3	4	53.62	47	21.5	2
31	4.85	63	17.6	1	50.03	33	10.5	6	49.03	34	31.9	4	54.09	48	21.3	5
April 10	5.48	61	17.5	2	50.36	32	11.1	11	49.37	34	31.5	5	54.57	46	21.8	11
20	6.09	60	17.7	5	50.68	31	12.2	16	49.71	34	31.0	5	55.03	44	22.9	17
30	6.69	56	18.2	8	50.99	30	13.8	21	50.05	32	30.5	4	55.47	40	24.6	22
Mai 10	7.25	53	19.0	11	51.29	27	15.9	23	50.37	30	30.1	3	55.87	36	26.8	27
20	7.78	48	20.1	14	51.56	24	18.2	26	50.67	28	29.8	3	56.23	30	29.5	30
30	8.26	41	21.5	16	51.80	20	20.8	29	50.95	26	29.5	2	56.53	24	32.5	32
Juni 9	8.67	35	23.1	19	52.00	17	23.7	29	51.21	21	29.3	1	56.77	17	35.7	34
19	9.02	28	25.0	20	52.17	12	26.6	29	51.42	18	29.2	1	56.94	10	39.1	34
29	9.30	19	27.0	21	52.29	7	29.5	28	51.60	14	29.3	1	57.04	2	42.5	34
Juli 9	9.49	10	29.1	21	52.36	2	32.3	28	51.74	9	29.4	3	57.06	5	45.9	33
19	9.59	2	31.2	22	52.38	2	35.1	25	51.83	4	29.7	3	57.01	13	49.2	31
29	9.61	8	33.4	20	52.36	7	37.6	23	51.87	1	30.0	4	56.88	20	52.3	29
Aug. 8	9.53	15	35.4	19	52.29	12	39.9	20	51.86	6	30.4	4	56.68	26	55.2	25
18	9.38	23	37.3	16	52.17	15	41.9	17	51.80	9	30.8	5	56.42	32	57.7	22
28	9.15	29	38.9	13	52.02	18	43.6	13	51.71	13	31.3	4	56.10	36	59.9	17
Sept. 7	8.86	34	40.2	10	51.84	21	44.9	9	51.58	15	31.7	3	55.74	40	61.6	12
17	8.52	37	41.2	5	51.63	22	45.8	5	51.43	18	32.0	2	55.34	43	62.8	8
27	8.15	38	41.7	1	51.41	23	46.3	0	51.25	17	32.2	2	54.91	43	63.6	3
Okt. 7	7.77	37	41.8	3	51.18	22	46.3	4	51.08	17	32.4	1	54.48	43	63.9	3
17	7.40	34	41.5	7	50.96	21	45.9	8	50.91	16	32.5	0	54.05	41	63.6	9
27	7.06	29	40.8	12	50.75	19	45.1	12	50.75	13	32.5	2	53.64	39	62.7	14
Nov. 6	6.77	22	39.6	16	50.56	15	43.9	17	50.62	9	32.3	2	53.25	33	61.3	18
16	6.55	15	38.0	18	50.41	11	42.2	21	50.53	5	32.1	2	52.92	28	59.5	24
26	6.40	6	36.2	21	50.30	7	40.1	23	50.48	0	31.9	3	52.64	22	57.1	27
Dez. 6	6.34	2	34.1	23	50.23	2	37.8	26	50.48	4	31.6	3	52.42	14	54.4	31
16	6.36	12	31.8	24	50.21	3	35.2	29	50.52	9	31.3	3	52.28	7	51.3	34
26	6.48	25	29.4	25	50.24	9	32.3	32	50.61	15	31.0	4	52.21	3	47.9	38
36	6.73		26.9		50.33		29.1		50.76		30.6		52.24		44.1	
Mittl. Ort	3.95		22.2		49.85		35.9		48.55		24.8		54.22		49.8	
	704)				705)				706)				707)			

1912	λ Telescopii. 5m.1. AR.		Dekl. −	
	18h 51m		53° 3'	
Jan. 1	22.67	24	26.5	21
11	22.91	27	24.4	18
21	23.18	33	22.6	16
31	23.51	37	21.0	16
Febr. 10	23.88	41	19.4	14
20	24.29	45	18.0	12
März 1	24.74	46	16.8	10
11	25.20	48	15.8	8
21	25.68	50	15.0	5
31	26.18	49	14.5	3
April 10	26.67	49	14.2	1
20	27.16	48	14.1	2
30	27.64	46	14.3	4
Mai 10	28.10	43	14.7	7
20	28.53	39	15.4	10
30	28.92	35	16.4	11
Juni 9	29.27	30	17.5	14
19	29.57	25	18.9	15
29	29.82	17	20.4	16
Juli 9	29.99	11	22.0	17
19	30.10	4	23.7	17
29	30.14	3	25.4	17
Aug. 8	30.11	10	27.1	16
18	30.01	16	28.7	14
28	29.85	20	30.1	12
Sept. 7	29.65	25	31.3	9
17	29.40	27	32.2	5
27	29.13	28	32.7	2
Okt. 7	28.85	28	32.9	1
17	28.57	25	32.8	5
27	28.32	22	32.3	9
Nov. 6	28.10	16	31.4	12
16	27.94	11	30.2	14
26	27.83	4	28.8	16
Dez. 6	27.79	3	27.2	19
16	27.82	10	25.3	19
26	27.92	18	23.4	20
36	[33] 28.10		21.4	
Mittl. Ort	25.48		16.5	
	708)			

1912	θ Serpentis pr. 4m.5. AR.		Dekl. +	
	18h 51m		4° 5'	
Jan. 1	48.89	14	8.5	17
11	49.03	16	6.8	16
21	49.19	20	5.2	14
31	49.39	23	3.8	13
Febr. 10	49.62	25	2.5	10
20	49.87	26	1.5	8
März 1	50.13	28	0.7	5
11	50.41	29	0.2	1
21	50.70	30	0.1	2
31	51.00	30	0.3	6
April 10	51.30	30	0.9	9
20	51.60	29	1.8	11
30	51.89	28	2.9	14
Mai 10	52.17	27	4.3	15
20	52.44	24	5.8	17
30	52.68	22	7.5	17
Juni 9	52.90	18	9.2	18
19	53.08	15	11.0	17
29	53.23	11	12.7	16
Juli 9	53.34	6	14.3	14
19	53.40	3	15.7	14
29	53.43	2	17.1	11
Aug. 8	53.41	6	18.2	10
18	53.35	9	19.2	7
28	53.26	13	19.9	6
Sept. 7	53.13	15	20.5	4
17	52.98	16	20.9	2
27	52.82	16	21.1	1
Okt. 7	52.66	16	21.0	3
17	52.50	15	20.7	4
27	52.35	13	20.3	7
Nov. 6	52.22	9	19.6	9
16	52.13	6	18.7	11
26	52.07	2	17.6	12
Dez. 6	52.05	2	16.4	14
16	52.07	7	15.0	16
26	52.14	12	13.4	17
36	[33] 52.26		11.7	
Mittl. Ort	50.69		17.9	
	709)			

1912	R Lyrae. (4m.5). AR.		Dekl. +	
	18h 52m		43° 49'	
Jan. 1	37.20	9	38.6	35
11	37.29	14	35.1	33
21	37.43	20	31.8	30
31	37.63	24	28.8	28
Febr. 10	37.87	27	26.0	23
20	38.14	31	23.7	19
März 1	38.45	34	21.8	13
11	38.79	35	20.5	7
21	39.14	36	19.8	1
31	39.50	36	19.7	5
April 10	39.86	36	20.2	11
20	40.22	34	21.3	16
30	40.56	32	22.9	22
Mai 10	40.88	30	25.1	25
20	41.18	26	27.6	28
30	41.44	21	30.4	30
Juni 9	41.65	17	33.4	32
19	41.82	12	36.6	33
29	41.94	6	39.9	32
Juli 9	42.00	1	43.1	30
19	42.01	4	46.1	29
29	41.97	10	49.0	26
Aug. 8	41.87	15	51.6	23
18	41.72	19	53.9	20
28	41.53	23	55.9	15
Sept. 7	41.30	25	57.4	11
17	41.05	27	58.5	7
27	40.78	28	59.2	2
Okt. 7	40.50	28	59.4	3
17	40.22	26	59.1	8
27	39.96	24	58.3	13
Nov. 6	39.72	21	57.0	17
16	39.51	16	55.3	22
26	39.35	11	53.1	25
Dez. 6	39.24	5	50.6	29
16	39.19	1	47.7	31
26	39.18	7	44.6	35
36	[33] 39.25		41.1	
Mittl. Ort	39.45		46.7	
	711)			

1912	γ Lyrae. 3m.2. AR.		Dekl. +	
	18h 55m		32° 33'	
Jan. 1	37.07	11	57.4	32
11	37.18	14	54.2	29
21	37.32	19	51.3	27
31	37.51	22	48.6	24
Febr. 10	37.73	25	46.2	21
20	37.98	28	44.1	17
März 1	38.26	30	42.4	11
11	38.56	32	41.3	6
21	38.88	32	40.7	0
31	39.20	33	40.7	5
April 10	39.53	32	41.2	11
20	39.85	31	42.3	15
30	40.16	30	43.8	20
Mai 10	40.46	28	45.8	23
20	40.74	24	48.1	26
30	40.98	22	50.7	28
Juni 9	41.20	17	53.5	29
19	41.37	13	56.4	29
29	41.50	8	59.3	29
Juli 9	41.58	4	62.2	27
19	41.62	1	64.9	26
29	41.61	6	67.5	24
Aug. 8	41.55	10	69.9	20
18	41.45	15	71.9	17
28	41.30	17	73.6	13
Sept. 7	41.13	21	74.9	10
17	40.92	22	75.9	6
27	40.70	22	76.5	2
Okt. 7	40.48	22	76.7	3
17	40.26	21	76.4	8
27	40.05	19	75.6	11
Nov. 6	39.86	15	74.5	16
16	39.71	12	72.9	19
26	39.59	7	71.0	23
Dez. 6	39.52	3	68.7	26
16	39.49	3	66.1	28
26	39.52	8	63.3	31
36	[34] 39.60		60.2	
Mittl. Ort	39.08		65.7	
	713)			

1912	ζ Aquilae. $3^m.0$. AR.		Dekl. +		λ Aquilae. $3^m.2$. AR.		Dekl. —		α Coron. austr. $4^m.1$. AR.		Dekl. —		π Sagittarii. $2^m.9$. AR.		Dekl. —	
	$19^h\ 1^m$		$13°\ 43'$		$19^h\ 1^m$		$5°\ 0'$		$19^h\ 3^m$		$38°\ 2'$		$19^h\ 4^m$		$21°\ 9'$	
Jan. 1	20.09	12	46.0	23	32.94	14	64.6	11	26.97	18	43.4	11	29.96	15	61.8	0
11	20.21	15	43.7	20	33.08	16	65.7	10	27.15	21	42.3	11	30.11	18	61.8	0
21	20.36	19	41.7	19	33.24	20	66.7	9	27.36	25	41.2	9	30.29	21	61.8	0
31	20.55	21	39.8	18	33.44	22	67.6	8	27.61	29	40.3	10	30.50	25	61.8	1
Febr. 10	20.76	24	38.0	14	33.66	25	68.4	7	27.90	31	39.3	9	30.75	27	61.7	1
20	21.00	26	36.6	11	33.91	27	69.1	4	28.21	34	38.4	9	31.02	28	61.6	2
März 1	21.26	27	35.5	7	34.18	28	69.5	1	28.55	36	37.5	7	31.30	31	61.4	3
11	21.53	29	34.8	3	34.46	29	69.6	0	28.91	37	36.8	7	31.61	31	61.1	4
21	21.82	30	34.5	1	34.75	30	69.6	4	29.28	38	36.1	7	31.92	32	60.7	5
31	22.12	30	34.6	6	35.05	31	69.2	5	29.66	39	35.4	5	32.24	33	60.2	6
April 10	22.42	30	35.2	9	35.36	30	68.7	8	30.05	39	34.9	4	32.57	33	59.6	6
20	22.72	29	36.1	13	35.66	30	67.9	10	30.44	38	34.5	3	32.90	33	59.0	7
30	23.01	29	37.4	16	35.96	29	66.9	11	30.82	37	34.2	2	33.23	31	58.3	7
Mai 10	23.30	27	39.0	19	36.25	28	65.8	13	31.19	35	34.0	0	33.54	30	57.6	7
20	23.57	24	40.9	20	36.53	26	64.5	13	31.54	33	34.0	2	33.84	29	56.9	6
30	23.81	22	42.9	22	36.79	23	63.2	13	31.87	29	34.2	3	34.13	25	56.3	5
Juni 9	24.03	19	45.1	22	37.02	20	61.9	13	32.16	26	34.5	5	34.38	22	55.8	4
19	24.22	14	47.3	22	37.22	16	60.6	12	32.42	21	35.0	7	34.60	19	55.4	4
29	24.36	11	49.5	21	37.38	13	59.4	12	32.63	17	35.7	7	34.79	14	55.0	2
Juli 9	24.47	7	51.6	20	37.51	8	58.2	10	32.80	11	36.4	10	34.93	10	54.8	1
19	24.54	3	53.6	18	37.59	4	57.2	9	32.91	6	37.4	9	35.03	6	54.7	0
29	24.57	2	55.4	16	37.63	0	56.3	7	32.97	0	38.3	10	35.09	0	54.7	2
Aug. 8	24.55	7	57.0	15	37.63	5	55.6	6	32.97	5	39.3	10	35.09	4	54.9	1
18	24.48	10	58.5	11	37.58	8	55.0	4	32.92	10	40.3	9	35.05	8	55.0	2
28	24.38	13	59.6	9	37.50	12	54.6	3	32.82	14	41.2	8	34.97	12	55.2	3
Sept. 7	24.25	15	60.5	6	37.38	13	54.3	2	32.68	17	42.0	7	34.85	14	55.5	3
17	24.10	17	61.1	4	37.25	16	54.1	0	32.51	20	42.7	5	34.71	16	55.8	2
27	23.93	18	61.5	0	37.09	16	54.1	1	32.31	20	43.2	3	34.55	17	56.0	2
Okt. 7	23.75	17	61.5	2	36.93	16	54.2	2	32.11	20	43.5	1	34.38	16	56.2	2
17	23.58	16	61.3	6	36.77	14	54.4	3	31.91	19	43.6	2	34.22	15	56.4	1
27	23.42	14	60.7	8	36.63	13	54.7	5	31.72	16	43.4	3	34.07	13	56.5	1
Nov. 6	23.28	12	59.9	12	36.50	9	55.2	6	31.56	12	43.1	6	33.94	10	56.6	0
16	23.16	7	58.7	13	36.41	6	55.8	7	31.44	8	42.5	7	33.84	6	56.6	0
26	23.09	4	57.4	16	36.35	2	56.5	8	31.36	2	41.8	9	33.78	1	56.6	0
Dez. 6	23.05	0	55.8	18	36.33	2	57.3	9	31.34	3	40.9	10	33.77	2	56.6	0
16	23.05	5	54.0	20	36.35	7	58.2	9	31.37	8	39.9	10	33.79	7	56.6	0
26	23.10	10	52.0	23	36.42	12	59.1	11	31.45	14	38.9	11	33.86	13	56.6	0
36	23.20		49.7		36.54		60.2		31.59		37.8		33.99		56.6	
Mittl. Ort	21.92		54.9		34.75		54.9		29.17		32.7		31.87		51.5	
	716)				717)				718)				720)			

1912	δ Draconis. 3ᵐ.0. AR.		δ Draconis. Dekl. +		ϑ Lyrae. 4ᵐ.3. AR.		ϑ Lyrae. Dekl. +	
	19ʰ 12ᵐ		67° 29′		19ʰ 13ᵐ		37° 58′	
Jan. 1	28ˢ.37	2	78″.5	39	16ˢ.67	7	27″.9	33
11	28.35	9	74.6	35	16.74	12	24.6	30
21	28.44	20	71.1	34	16.86	17	21.6	29
31	28.64	30	67.7	32	17.03	20	18.7	27
Febr. 10	28.94	38	64.5	28	17.23	25	16.0	23
20	29.32	46	61.7	23	17.48	27	13.7	18
März 1	29.78	53	59.4	17	17.75	31	11.9	14
11	30.31	57	57.7	12	18.06	32	10.5	8
21	30.88	60	56.5	5	18.38	33	9.7	2
31	31.48	61	56.0	2	18.71	34	9.5	4
April 10	32.09	60	56.2	8	19.05	35	9.9	9
20	32.69	57	57.0	14	19.40	33	10.8	15
30	33.26	53	58.4	20	19.73	32	12.3	19
Mai 10	33.79	48	60.4	25	20.05	30	14.2	24
20	34.27	40	62.9	28	20.35	26	16.6	26
30	34.67	33	65.7	32	20.61	23	19.2	29
Juni 9	35.00	23	68.9	33	20.84	20	22.1	31
19	35.23	13	72.2	35	21.04	14	25.2	31
29	35.36	4	75.7	35	21.18	10	28.3	31
Juli 9	35.40	6	79.2	35	21.28	5	31.4	30
19	35.34	16	82.7	33	21.33	1	34.4	28
29	35.18	25	86.0	31	21.32	5	37.2	26
Aug. 8	34.93	34	89.1	29	21.27	11	39.8	24
18	34.59	41	92.0	24	21.16	14	42.2	20
28	34.18	49	94.4	21	21.02	19	44.2	17
Sept. 7	33.69	54	96.5	17	20.83	21	45.9	12
17	33.15	57	98.2	11	20.62	24	47.1	8
27	32.58	60	99.3	7	20.38	24	47.9	4
Okt. 7	31.98	61	100.0	1	20.14	24	48.3	1
17	31.37	59	100.1	5	19.90	24	48.2	5
27	30.78	56	99.6	10	19.66	21	47.7	11
Nov. 6	30.22	51	98.6	15	19.45	19	46.6	14
16	29.71	46	97.1	21	19.26	15	45.2	19
26	29.25	38	95.0	25	19.11	10	43.3	23
Dez. 6	28.87	28	92.5	29	19.01	6	41.0	26
16	28.59	18	89.6	32	18.95	1	38.4	28
26	28.41	9	86.4	34	18.94	4	35.6	30
36	28.32		83.0		18.98		32.6	
Mittl. Ort	32.27		84.1		18.79		35.1	
	723)				724)			

1912	ω Aquilae. 5ᵐ.4. AR.		ω Aquilae. Dekl. +		ϰ Cygni. 3ᵐ.8. AR.		ϰ Cygni. Dekl. +	
	19ʰ 13ᵐ		11° 25′		19ʰ 15ᵐ		53° 11′	
Jan. 1	39ˢ.34	11	60″.8	21	1ˢ.52	4	74″.3	38
11	39.45	14	58.7	19	1.56	11	70.5	34
21	39.59	17	56.8	17	1.67	17	67.1	32
31	39.76	21	55.1	16	1.84	22	63.9	30
Febr. 10	39.97	23	53.5	14	2.06	28	60.9	27
20	40.20	25	52.1	10	2.34	33	58.2	21
März 1	40.45	27	51.1	7	2.67	37	56.1	17
11	40.72	28	50.4	2	3.04	39	54.4	10
21	41.00	29	50.2	1	3.43	41	53.4	4
31	41.29	30	50.3	5	3.84	42	53.0	2
April 10	41.59	31	50.8	10	4.26	42	53.2	9
20	41.90	29	51.8	13	4.68	40	54.1	15
30	42.19	29	53.1	15	5.08	38	55.6	20
Mai 10	42.48	28	54.6	18	5.46	35	57.6	24
20	42.76	25	56.4	19	5.81	31	60.0	29
30	43.01	23	58.3	21	6.12	26	62.9	31
Juni 9	43.24	20	60.4	22	6.38	20	66.0	33
19	43.44	16	62.6	21	6.58	15	69.3	34
29	43.60	12	64.7	20	6.73	7	72.7	34
Juli 9	43.72	8	66.7	20	6.80	2	76.1	34
19	43.80	4	68.7	17	6.82	6	79.5	32
29	43.84	1	70.4	16	6.76	11	82.7	30
Aug. 8	43.83	4	72.0	14	6.65	18	85.7	27
18	43.79	9	73.4	11	6.47	22	88.4	23
28	43.70	12	74.5	9	6.25	27	90.7	20
Sept. 7	43.58	15	75.4	6	5.98	31	92.7	15
17	43.43	16	76.0	4	5.67	34	94.2	11
27	43.27	17	76.4	1	5.33	35	95.3	5
Okt. 7	43.10	17	76.5	2	4.98	35	95.8	1
17	42.93	16	76.3	4	4.63	34	95.9	5
27	42.77	14	75.9	8	4.29	33	95.4	10
Nov. 6	42.63	12	75.1	10	3.96	28	94.4	16
16	42.51	8	74.1	13	3.68	25	92.8	20
26	42.43	4	72.8	14	3.43	19	90.8	24
Dez. 6	42.39	1	71.4	17	3.24	13	88.4	29
16	42.38	4	69.7	17	3.11	7	85.5	31
26	42.42	8	68.0	19	3.04	0	82.4	33
36	42.50		66.1		3.04		79.1	
Mittl. Ort	41.15		69.6		4.18		80.5	
	725)				726)			

1912	τ Draconis. 4m.5.				α Sagittarii. 4m.0.				δ Aquilae. 3m.3.				β Cygni. 3m.0.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	19h 17m		73° 11′		19h 17m		40° 46′		19h 21m		2° 56′		19h 27m		27° 46′	
	s		″		s		″		s		″		s		″	
Jan. 1	10.09	10	27.7	38	45.22	17	67.8	14	1.91	11	9.6	16	8.38	6	20.0	27
11	9.99	7	23.9	35	45.39	19	66.4	12	2.02	14	8.0	14	8.44	13	17.3	29
21	10.06	20	20.4	34	45.58	24	65.2	13	2.16	18	6.6	13	8.57	15	14.4	25
31	10.26	34	17.0	32	45.82	28	63.9	12	2.34	20	5.3	11	8.72	19	11.9	23
Febr. 10	10.60	47	13.8	29	46.10	31	62.7	12	2.54	23	4.2	10	8.91	22	9.6	20
20	11.07	56	10.9	24	46.41	34	61.5	10	2.77	24	3.2	7	9.13	25	7.6	16
März 1	11.63	66	8.5	18	46.75	37	60.5	10	3.01	27	2.5	3	9.38	27	6.0	12
11	12.29	72	6.7	12	47.12	37	59.5	9	3.28	28	2.2	1	9.65	30	4.8	6
21	13.01	77	5.5	6	47.49	39	58.6	8	3.56	29	2.1	3	9.95	30	4.2	2
31	13.78	78	4.9	0	47.88	40	57.8	7	3.85	30	2.4	6	10.25	32	4.0	4
April 10	14.56	76	4.9	7	48.28	40	57.1	5	4.15	31	3.0	9	10.57	31	4.4	9
20	15.32	74	5.6	13	48.68	40	56.6	4	4.46	30	3.9	11	10.88	32	5.3	13
30	16.06	67	6.9	19	49.08	39	56.2	3	4.76	29	5.0	14	11.20	31	6.6	18
Mai 10	16.73	60	8.8	24	49.47	37	55.9	0	5.05	28	6.4	16	11.51	29	8.4	22
20	17.33	50	11.2	28	49.84	35	55.9	1	5.33	27	8.0	17	11.80	27	10.6	24
30	17.83	40	14.0	31	50.19	32	56.0	4	5.60	24	9.7	17	12.07	24	13.0	26
Juni 9	18.23	28	17.1	33	50.51	28	56.4	5	5.84	21	11.4	18	12.31	20	15.6	28
19	18.51	15	20.4	35	50.79	24	56.9	7	6.05	17	13.2	17	12.51	17	18.4	28
29	18.66	2	23.9	35	51.03	18	57.6	9	6.22	13	14.9	16	12.68	12	21.2	28
Juli 9	18.68	11	27.4	34	51.21	13	58.5	10	6.35	10	16.5	16	12.80	7	24.0	27
19	18.57	23	30.8	34	51.34	8	59.5	12	6.45	5	18.1	13	12.87	3	26.7	25
29	18.34	36	34.2	31	51.42	1	60.7	11	6.50	1	19.4	12	12.90	1	29.2	24
Aug. 8	17.98	47	37.3	29	51.43	4	61.8	12	6.51	3	20.6	11	12.89	7	31.6	21
18	17.51	57	40.2	26	51.39	9	63.0	10	6.48	7	21.7	8	12.82	10	33.7	18
28	16.94	66	42.8	22	51.30	14	64.0	10	6.41	11	22.5	6	12.72	14	35.5	15
Sept. 7	16.28	73	45.0	17	51.16	17	65.0	9	6.30	14	23.1	4	12.58	17	37.0	11
17	15.55	79	46.7	13	50.99	20	65.9	6	6.16	15	23.5	2	12.41	19	38.1	8
27	14.76	81	48.0	7	50.79	21	66.5	4	6.01	16	23.7	0	12.22	21	38.9	4
Okt. 7	13.95	82	48.7	2	50.58	21	66.9	2	5.85	16	23.7	1	12.01	20	39.3	1
17	13.13	81	48.9	3	50.37	20	67.1	1	5.69	15	23.6	4	11.81	20	39.2	4
27	12.32	78	48.6	8	50.17	17	67.0	3	5.54	14	23.2	6	11.61	18	38.8	8
Nov. 6	11.54	72	47.8	15	50.00	14	66.7	6	5.40	11	22.6	7	11.43	15	38.0	12
16	10.82	65	46.3	19	49.86	9	66.1	8	5.29	7	21.9	10	11.28	13	36.8	16
26	10.17	55	44.4	24	49.77	5	65.3	9	5.22	4	20.9	11	11.15	8	35.2	19
Dez. 6	9.62	44	42.0	28	49.72	1	64.4	11	5.18	0	19.8	12	11.07	4	33.3	22
16	9.18	31	39.2	32	49.73	6	63.3	12	5.18	4	18.6	13	11.03	0	31.1	24
26	8.87	17	36.0	33	49.79	12	62.1	13	5.22	8	17.3	14	11.03	4	28.7	26
36	8.70		32.7		49.91		60.8		5.30		15.9		11.07		26.1	
Mittl. Ort	15.11		32.7		47.45		56.2		3.70		18.9		10.33		27.2	
	729)				728)				730)				732)			

1912	ι Cygni. 3m.9.				h Sagittarii. 4m.6.				θ Cygni. 4m.5.				γ Aquilae. 2m.7.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. +	
	19h 27m		51° 32′		19h 31m		25° 4′		19h 34m		50° 0′		19h 42m		10° 23′	
	s		"		s		"		s		"		s		"	
Jan. 1	26.67	2	25.2	33	19.31	12	54.4	3	2.37	1	55.4	32	2.78	7	44.9	17
11	26.69	9	21.9	37	19.43	17	54.1	4	2.38	8	52.2	36	2.85	12	43.2	19
21	26.78	15	18.2	33	19.60	19	53.7	4	2.46	14	48.6	33	2.97	15	41.3	17
31	26.93	21	14.9	30	19.79	22	53.3	4	2.60	20	45.3	30	3.12	18	39.6	15
Febr. 10	27.14	26	11.9	27	20.01	25	52.9	5	2.80	24	42.3	27	3.30	20	38.1	12
20	27.40	30	9.2	22	20.26	28	52.4	6	3.04	29	39.6	22	3.50	23	36.9	10
März 1	27.70	34	7.0	17	20.54	30	51.8	6	3.33	33	37.4	17	3.73	25	35.9	7
11	28.04	38	5.3	11	20.84	31	51.2	7	3.66	36	35.7	12	3.98	28	35.2	2
21	28.42	39	4.2	5	21.15	32	50.5	7	4.02	38	34.5	5	4.26	28	35.0	1
31	28.81	41	3.7	1	21.47	34	49.8	8	4.40	40	34.0	1	4.54	30	35.1	5
April 10	29.22	40	3.8	8	21.81	34	49.0	9	4.80	40	34.1	7	4.84	30	35.6	9
20	29.62	40	4.6	13	22.15	34	48.1	8	5.20	39	34.8	13	5.14	31	36.5	13
30	30.02	38	5.9	19	22.49	33	47.3	8	5.59	38	36.1	19	5.45	30	37.8	15
Mai 10	30.40	36	7.8	24	22.82	33	46.5	7	5.97	35	38.0	23	5.75	29	39.3	18
20	30.76	31	10.2	27	23.15	31	45.8	6	6.32	32	40.3	27	6.04	27	41.1	19
30	31.07	27	12.9	31	23.46	28	45.2	5	6.64	27	43.0	30	6.31	25	43.0	21
Juni 9	31.34	22	16.0	33	23.74	25	44.7	4	6.91	23	46.0	32	6.56	22	45.1	22
19	31.56	17	19.3	34	23.99	22	44.3	2	7.14	17	49.2	34	6.78	19	47.3	21
29	31.73	10	22.7	34	24.21	17	44.1	1	7.31	11	52.6	34	6.97	15	49.4	21
Juli 9	31.83	4	26.1	34	24.38	13	44.0	1	7.42	5	56.0	34	7.12	11	51.5	19
19	31.87	3	29.5	32	24.51	8	44.1	2	7.47	1	59.4	33	7.23	6	53.4	19
29	31.84	9	32.7	31	24.59	3	44.3	3	7.46	7	62.7	30	7.29	2	55.3	16
Aug. 8	31.75	15	35.8	27	24.62	1	44.6	3	7.39	13	65.7	28	7.31	2	56.9	14
18	31.60	20	38.5	25	24.61	6	44.9	5	7.26	19	68.5	25	7.29	7	58.3	12
28	31.40	25	41.0	21	24.55	11	45.4	5	7.07	23	71.0	21	7.22	10	59.5	10
Sept. 7	31.15	28	43.1	16	24.44	13	45.9	5	6.84	27	73.1	17	7.12	13	60.5	7
17	30.87	31	44.7	12	24.31	15	46.4	4	6.57	29	74.8	13	6.99	15	61.2	5
27	30.56	33	45.9	7	24.16	17	46.8	3	6.28	31	76.1	8	6.84	16	61.7	2
Okt. 7	30.23	34	46.6	2	23.99	17	47.1	3	5.97	32	76.9	3	6.68	17	61.9	1
17	29.89	32	46.8	3	23.82	16	47.4	2	5.65	31	77.2	3	6.51	16	61.8	3
27	29.57	31	46.5	8	23.66	15	47.6	0	5.34	30	76.9	7	6.35	15	61.5	6
Nov. 6	29.26	28	45.7	14	23.51	11	47.6	0	5.04	27	76.2	13	6.20	12	60.9	8
16	28.98	24	44.3	19	23.40	8	47.6	1	4.77	23	74.9	18	6.08	10	60.1	11
26	28.74	19	42.4	23	23.32	4	47.5	1	4.54	19	73.1	22	5.98	6	59.0	13
Dez. 6	28.55	14	40.1	27	23.28	1	47.4	3	4.35	14	70.9	27	5.92	2	57.7	15
16	28.41	8	37.4	30	23.29	4	47.1	3	4.21	7	68.2	29	5.90	1	56.2	16
26	28.33	1	34.4	32	23.33	9	46.8	3	4.14	2	65.3	31	5.91	6	54.6	17
36	28.32		31.2		23.42		46.5		4.12		62.2		5.97		52.9	
Mittl. Ort	29.26		30.6		21.21		43.0		4.89		60.5		4.56		53.4	
	733)				736)				738)				741)			

1912	δ Cygni. $2^m.8$.				δ Sagittae. $3^m.8$.				α Aquilae. 1^m.				ε Draconis. $3^m.8$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$19^h\ 42^m$		$44°\ 54'$		$19^h\ 43^m$		$18°\ 18'$		$19^h\ 46^m$		$8°\ 37'$		$19^h\ 48^m$		$70°\ 2'$	
Jan. 1	$11^s.16$	1	$50''.6$	31	$26^s.00$	6	$51''.9$	21	$27^s.62$	7	$58''.3$	16	$24^s.21$	15	$35''.0$	33
11	11.17	8	47.5	34	26.06	11	49.8	24	27.69	12	56.7	18	24.06	2	31.7	38
21	11.25	13	44.1	31	26.17	14	47.4	20	27.81	14	54.9	15	24.04	11	27.9	34
31	11.38	18	41.0	29	26.31	17	45.4	19	27.95	18	53.4	14	24.15	23	24.5	33
Febr. 10	11.56	22	38.1	26	26.48	21	43.5	17	28.13	20	52.0	12	24.38	33	21.2	30
20	11.78	27	35.5	22	26.69	23	41.8	13	28.33	23	50.8	8	24.71	43	18.2	27
März 1	12.05	30	33.3	17	26.92	25	40.5	9	28.56	25	50.0	6	25.14	52	15.5	21
11	12.35	33	31.6	11	27.17	28	39.6	5	28.81	27	49.4	2	25.66	59	13.4	16
21	12.68	35	30.5	6	27.45	29	39.1	0	29.08	28	49.2	2	26.25	63	11.8	9
31	13.03	37	29.9	1	27.74	30	39.1	4	29.36	30	49.4	5	26.88	67	10.9	3
April 10	13.40	37	30.0	7	28.04	30	39.5	9	29.66	30	49.9	9	27.55	67	10.6	3
20	13.77	37	30.7	12	28.34	31	40.4	12	29.96	31	50.8	13	28.22	66	10.9	10
30	14.14	36	31.9	18	28.65	31	41.6	17	30.27	30	52.1	15	28.88	63	11.9	16
Mai 10	14.50	33	33.7	22	28.96	29	43.3	19	30.57	29	53.6	17	29.51	58	13.5	21
20	14.83	31	35.9	27	29.25	27	45.2	22	30.86	28	55.3	20	30.09	51	15.6	26
30	15.14	27	38.6	29	29.52	25	47.4	23	31.14	25	57.3	20	30.60	43	18.2	30
Juni 9	15.41	23	41.5	32	29.77	22	49.7	25	31.39	23	59.3	21	31.03	33	21.2	32
19	15.64	18	44.7	32	29.99	19	52.2	24	31.62	20	61.4	20	31.36	24	24.4	34
29	15.82	13	47.9	33	30.18	14	54.6	25	31.82	15	63.4	20	31.60	12	27.8	36
Juli 9	15.95	7	51.2	33	30.32	10	57.1	23	31.97	12	65.4	19	31.72	2	31.4	36
19	16.02	2	54.5	32	30.42	6	59.4	23	32.09	7	67.3	18	31.74	9	35.0	35
29	16.04	4	57.7	30	30.48	1	61.7	20	32.16	2	69.1	16	31.65	21	38.5	34
Aug. 8	16.00	10	60.7	28	30.49	3	63.7	18	32.18	2	70.7	14	31.44	30	41.9	31
18	15.90	15	63.5	24	30.46	7	65.5	15	32.16	5	72.1	11	31.14	40	45.0	29
28	15.75	19	65.9	21	30.39	11	67.0	13	32.11	10	73.2	9	30.74	48	47.9	26
Sept. 7	15.56	23	68.0	17	30.28	14	68.3	10	32.01	12	74.1	7	30.26	56	50.5	21
17	15.33	25	69.7	13	30.14	17	69.3	7	31.89	15	74.8	5	29.70	60	52.6	17
27	15.08	27	71.0	8	29.97	17	70.0	4	31.74	16	75.3	2	29.10	65	54.3	13
Okt. 7	14.81	28	71.8	3	29.80	18	70.4	0	31.58	16	75.5	1	28.45	67	55.6	7
17	14.53	28	72.1	2	29.62	17	70.4	3	31.42	16	75.4	3	27.78	67	56.3	1
27	14.25	26	71.9	7	29.45	16	70.1	7	31.26	14	75.1	5	27.11	66	56.4	4
Nov. 6	13.99	23	71.2	12	29.29	14	69.4	10	31.12	12	74.6	8	26.45	62	56.0	10
16	13.76	21	70.0	17	29.15	10	68.4	12	31.00	10	73.8	10	25.83	56	55.0	15
26	13.55	16	68.3	20	29.05	8	67.2	16	30.90	6	72.8	12	25.27	50	53.5	21
Dez. 6	13.39	11	66.3	25	28.97	4	65.6	17	30.84	2	71.6	14	24.77	41	51.4	25
16	13.28	6	63.8	28	28.93	1	63.9	20	30.82	1	70.2	15	24.36	32	48.9	29
26	13.22	1	61.0	30	28.94	4	61.9	21	30.83	5	68.7	16	24.04	20	46.0	32
36	13.21		58.0		28.98		59.8		30.88		67.1		23.84		42.8	
Mittl. Ort	13.49		55.6		27.83		59.5		29.38		66.9		28.61		37.6	
	742)				743)				745)				747)			

1912	ε Pavonis. $3^m.8$. AR.		Dekl. −		β Aquilae. $3^m.7$. AR.		Dekl. +		ψ Cygni. $5^m.0$. AR.		Dekl. +		ϑ^1 Sagittarii. $4^m.3$. AR.		Dekl. −	
	$19^h\ 50^m$		73° 8′		$19^h\ 50^m$		6° 10′		$19^h\ 53^m$		52° 11′		$19^h\ 53^m$		35° 30′	
Jan. 1	21.18	12	52.8	30	57.69	7	61.9	15	18.67	2	74.1	32	58.65	10	67.2	10
11	21.30	30	49.8	33	57.76	12	60.4	16	18.65	5	70.9	36	58.75	15	66.2	12
21	[16] 21.60	40	46.5	30	[16] 57.88	14	58.8	15	[17] 18.70	11	67.3	33	[17] 58.90	19	65.0	12
31	22.00	52	43.5	29	58.02	17	57.3	12	18.81	16	64.0	30	59.09	22	63.8	11
Febr. 10	22.52	63	40.6	27	58.19	20	56.1	11	18.97	23	61.0	28	59.31	25	62.7	12
20	23.15	72	37.9	25	58.39	22	55.0	8	19.20	28	58.2	25	59.56	29	61.5	12
März 1	23.87	79	35.4	21	58.61	25	54.2	5	19.48	32	55.7	19	59.85	31	60.3	12
11	24.66	86	33.3	19	58.86	26	53.7	1	19.80	35	53.8	13	60.16	33	59.1	11
21	25.52	90	31.4	15	59.12	29	53.6	2	20.15	39	52.5	8	60.49	35	58.0	12
31	26.42	93	29.9	11	59.41	29	53.8	5	20.54	41	51.7	1	60.84	37	56.8	10
April 10	27.35	95	28.8	7	59.70	30	54.3	9	20.95	41	51.6	5	61.21	37	55.8	10
20	28.30	95	28.1	3	60.00	31	55.2	12	21.36	41	52.1	11	61.58	38	54.8	9
30	29.25	93	27.8	1	60.31	30	56.4	15	21.77	41	53.2	16	61.96	37	53.9	7
Mai 10	30.18	88	27.9	6	60.61	29	57.9	17	22.18	37	54.8	22	62.33	37	53.2	6
20	31.06	84	28.5	9	60.90	28	59.6	18	22.55	35	57.0	26	62.70	35	52.6	4
30	31.90	76	29.4	14	61.18	26	61.4	19	22.90	31	59.6	30	63.05	33	52.2	2
Juni 9	32.66	67	30.8	17	61.44	23	63.3	20	23.21	25	62.6	31	63.38	29	52.0	0
19	33.33	57	32.5	20	61.67	20	65.3	19	23.46	20	65.7	34	63.67	26	52.0	2
29	33.90	44	34.5	23	61.87	16	67.2	19	23.66	14	69.1	35	63.93	22	52.2	4
Juli 9	34.34	31	36.8	24	62.03	12	69.1	18	23.80	8	72.6	34	64.15	16	52.6	6
19	34.65	18	39.2	26	62.15	8	70.9	16	23.88	1	76.0	34	64.31	11	53.2	8
29	34.83	3	41.8	26	62.23	3	72.5	15	23.89	6	79.4	32	64.42	6	54.0	8
Aug. 8	34.86	11	44.4	25	62.26	1	74.0	12	23.83	11	82.6	30	64.48	0	54.8	10
18	34.75	25	46.9	24	62.25	6	75.2	10	23.72	17	85.6	27	64.48	5	55.8	10
28	34.50	36	49.3	21	62.19	9	76.2	9	23.55	23	88.3	24	64.43	10	56.8	9
Sept. 7	34.14	47	51.4	18	62.10	12	77.1	6	23.32	26	90.7	19	64.33	13	57.7	9
17	33.67	55	53.2	14	61.98	14	77.7	3	23.06	30	92.6	15	64.20	16	58.6	8
27	33.12	61	54.6	9	61.84	15	78.0	1	22.76	32	94.1	11	64.04	19	59.4	6
Okt. 7	32.51	64	55.5	4	61.69	16	78.1	0	22.44	33	95.2	6	63.85	19	60.0	5
17	31.87	63	55.9	1	61.53	16	78.1	4	22.11	34	95.8	0	63.66	18	60.5	2
27	31.24	60	55.8	7	61.37	14	77.7	5	21.77	32	95.8	5	63.48	18	60.7	1
Nov. 6	30.64	54	55.1	12	61.23	13	77.2	7	21.45	29	95.3	10	63.30	14	60.8	2
16	30.10	45	53.9	17	61.10	9	76.5	10	21.16	26	94.3	16	63.16	11	60.6	4
26	29.65	35	52.2	21	61.01	6	75.5	11	20.90	22	92.7	20	63.05	7	60.2	6
Dez. 6	29.30	22	50.1	24	60.95	3	74.4	13	20.68	18	90.7	25	62.98	3	59.6	8
16	29.08	8	47.7	27	60.92	1	73.1	14	20.50	11	88.2	28	62.95	2	58.8	9
26	29.00	6	45.0	30	60.93	5	71.7	15	20.39	5	85.4	31	62.97	7	57.9	10
36	29.06		42.0		60.98		70.2		20.34		82.3		63.04		56.9	
Mittl. Ort	25.86		38.0		59.44		70.7		21.30		77.7		60.62		54.0	
	748)				749)				750)				751)			

1912	γ Sagittae. $3^m.6$.				δ Pavonis. $3^m.5$.				θ Aquilae. $3^m.1$.				ο¹ seq. Cygni. $4^m.3$.			
	AR.		Dekl. +		AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +	
	$19^h\ 54^m$		$19°\ 14'$		$20^h\ 0^m$		$66°\ 24'$		$20^h\ 6^m$		$1°\ 4'$		$20^h\ 10^m$		$46°\ 28'$	
Jan. 1	48.77	5	61.9	22	2.76	10	42.1	26	44.20	5	68.9	11	49.26	2	23.2	30
11	48.82	10	59.7	23	2.86	23	39.5	30	44.25	11	70.0	11	49.24	3	20.2	31
21	48.92	13	57.4	21	3.09	29	36.5	28	44.36	13	71.1	9	49.27	9	17.1	34
31	49.05	16	55.3	19	3.38	38	33.7	27	44.49	16	72.0	8	49.36	14	13.7	29
Febr. 10	49.21	19	53.4	17	3.76	46	31.0	25	44.65	19	72.8	7	49.50	19	10.8	27
20	49.40	23	51.7	13	4.22	52	28.5	24	44.84	22	73.5	4	49.69	24	8.1	24
März 1	49.63	24	50.4	10	4.74	58	26.1	21	45.06	24	73.9	1	49.93	28	5.7	19
11	49.87	27	49.4	5	5.32	62	24.0	19	45.30	26	74.0	1	50.21	31	3.8	14
21	50.14	28	48.9	1	5.94	67	22.1	16	45.56	28	73.9	4	50.52	35	2.4	8
31	50.42	30	48.8	3	6.61	68	20.5	13	45.84	29	73.5	7	50.87	36	1.6	2
April 10	50.72	31	49.1	9	7.29	71	19.2	8	46.13	30	72.8	10	51.23	38	1.4	4
20	51.03	31	50.0	12	8.00	71	18.4	6	46.43	31	71.8	12	51.61	39	1.8	10
30	51.34	31	51.2	16	8.71	71	17.8	1	46.74	31	70.6	14	52.00	37	2.8	15
Mai 10	51.65	30	52.8	19	9.42	68	17.7	3	47.05	30	69.2	16	52.37	37	4.3	21
20	51.95	28	54.7	22	10.10	64	18.0	6	47.35	29	67.6	16	52.74	34	6.4	24
30	52.23	26	56.9	24	10.74	59	18.6	11	47.64	27	66.0	18	53.08	30	8.8	29
Juni 9	52.49	23	59.3	24	11.33	54	19.7	14	47.91	25	64.2	16	53.38	26	11.7	30
19	52.72	19	61.7	26	11.87	46	21.1	17	48.16	22	62.6	17	53.64	22	14.7	33
29	52.91	16	64.3	25	12.33	37	22.8	19	48.38	18	60.9	16	53.86	16	18.0	34
Juli 9	53.07	11	66.8	24	12.70	28	24.7	22	48.56	13	59.3	14	54.02	11	21.4	34
19	53.18	7	69.2	23	12.98	18	26.9	23	48.69	10	57.9	13	54.13	5	24.8	33
29	53.25	2	71.5	21	13.16	7	29.2	24	48.79	5	56.6	11	54.18	1	28.1	32
Aug. 8	53.27	2	73.6	19	13.23	4	31.6	24	48.84	1	55.5	9	54.17	6	31.3	29
18	53.25	7	75.5	17	13.19	13	34.0	22	48.85	4	54.6	8	54.11	12	34.2	27
28	53.18	10	77.2	14	13.06	23	36.2	21	48.81	7	53.8	5	53.99	17	36.9	24
Sept. 7	53.08	14	78.6	10	12.83	30	38.3	18	48.74	10	53.3	4	53.82	21	39.3	20
17	52.94	15	79.6	8	12.53	37	40.1	15	48.64	13	52.9	2	53.61	24	41.3	16
27	52.79	17	80.4	4	12.16	41	41.6	10	48.51	15	52.7	0	53.37	26	42.9	12
Okt. 7	52.62	18	80.8	2	11.75	44	42.6	6	48.36	15	52.7	1	53.11	28	44.1	7
17	52.44	17	81.0	3	11.31	44	43.2	1	48.21	15	52.8	3	52.83	28	44.8	2
27	52.27	16	80.7	5	10.87	41	43.3	4	48.06	14	53.1	4	52.55	27	45.0	3
Nov. 6	52.11	15	80.2	9	10.46	37	42.9	9	47.92	12	53.5	6	52.28	25	44.7	9
16	51.96	11	79.3	12	10.09	31	42.0	14	47.80	10	54.1	7	52.03	23	43.8	13
26	51.85	9	78.1	15	9.78	24	40.6	18	47.70	6	54.8	8	51.80	19	42.5	18
Dez. 6	51.76	4	76.6	18	9.54	14	38.8	21	47.64	4	55.6	9	51.61	15	40.7	22
16	51.72	1	74.8	19	9.40	5	36.7	24	47.60	1	56.5	10	51.46	11	38.5	26
26	51.71	3	72.9	21	9.35	5	34.3	26	47.61	4	57.5	10	51.35	5	35.9	28
36	51.74		70.8		9.40		31.7		47.65		58.5		51.30		33.1	
Mittl. Ort	50.60		69.0		6.18		26.8		45.90		59.4		51.63		26.2	
	752)				754)				756)				757)			

1912	κ Cephei. $4^m.3$. AR.		Dekl. +		24 Vulpecul. $5^m.7$. AR.		Dekl. +		α² Capricorni. $3^m.6$. AR.		Dekl. —		α Pavonis. $1^m.9$. AR.		Dekl. —	
	$20^h\ 11^m$		77° 26′		$20^h\ 12^m$		24° 23′		$20^h\ 13^m$		12° 49′		$20^h\ 18^m$		57° 0′	
Jan. 1	45.61	39	48.4	31	59.29	2	52.1	22	8.71	6	16.8	3	39.08	6	80.0	22
11	45.22	21	45.3	33	59.31	7	49.9	24	8.77	10	17.1	3	39.14	13	77.8	24
21	45.01	1	42.0	37	59.38	11	47.5	25	8.87	14	17.4	2	39.27	21	75.4	26
31	45.00	19	38.3	34	59.49	14	45.0	21	9.01	17	17.6	1	39.48	26	72.8	25
Febr. 10	45.19	37	34.9	31	59.63	18	42.9	19	9.18	20	17.7	1	39.74	32	70.3	24
20	45.56	55	31.8	28	59.81	20	41.0	16	9.38	22	17.6	2	40.06	36	67.9	22
März 1	46.11	70	29.0	24	60.01	24	39.4	12	9.60	24	17.4	3	40.42	41	65.7	22
11	46.81	82	26.6	19	60.25	26	38.2	8	9.84	27	17.1	6	40.83	45	63.5	20
21	47.63	91	24.7	13	60.51	29	37.4	3	10.11	28	16.5	8	41.28	48	61.5	17
31	48.54	98	23.4	7	60.80	30	37.1	2	10.39	30	15.7	9	41.76	51	59.8	16
April 10	49.52	101	22.7	0	61.10	31	37.3	7	10.69	32	14.8	11	42.27	52	58.2	12
20	50.53	100	22.7	6	61.41	32	38.0	11	11.01	32	13.7	12	42.79	54	57.0	9
30	51.53	97	23.3	13	61.73	31	39.1	16	11.33	32	12.5	13	43.33	53	56.1	6
Mai 10	52.50	89	24.6	17	62.04	31	40.7	20	11.65	31	11.2	13	43.86	52	55.5	3
20	53.39	80	26.3	23	62.35	30	42.7	22	11.96	31	9.9	13	44.38	51	55.2	1
30	54.19	68	28.6	27	62.65	27	44.9	25	12.27	29	8.6	13	44.89	47	55.3	4
Juni 9	54.87	55	31.3	31	62.92	25	47.4	26	12.56	26	7.3	12	45.36	44	55.7	8
19	55.42	39	34.4	33	63.17	21	50.0	27	12.82	23	6.1	11	45.80	38	56.5	11
29	55.81	22	37.7	35	63.38	17	52.7	28	13.05	20	5.0	10	46.18	32	57.6	14
Juli 9	56.03	6	41.2	36	63.55	13	55.5	27	13.25	16	4.0	8	46.50	24	59.0	16
19	56.09	11	44.8	36	63.68	8	58.2	26	13.41	11	3.2	6	46.74	19	60.6	19
29	55.98	28	48.4	34	63.76	3	60.8	24	13.52	6	2.6	5	46.93	9	62.5	19
Aug. 8	55.70	43	51.8	34	63.79	1	63.2	22	13.58	2	2.1	3	47.02	2	64.4	20
18	55.27	59	55.2	31	63.78	6	65.4	19	13.60	2	1.8	1	47.04	6	66.4	20
28	54.68	72	58.3	29	63.72	10	67.3	17	13.58	7	1.7	0	46.98	12	68.4	19
Sept. 7	53.96	84	61.2	25	63.62	13	69.0	14	13.51	10	1.7	1	46.86	20	70.3	17
17	53.12	93	63.7	21	63.49	15	70.4	10	13.41	12	1.8	2	46.66	24	72.0	14
27	52.19	101	65.8	16	63.34	18	71.4	7	13.29	14	2.0	3	46.42	27	73.4	12
Okt. 7	51.18	107	67.4	12	63.16	18	72.1	3	13.15	15	2.3	3	46.15	32	74.6	7
17	50.11	108	68.6	6	62.98	18	72.4	0	13.00	16	2.6	3	45.83	30	75.3	4
27	49.03	109	69.2	1	62.80	18	72.4	5	12.84	14	2.9	4	45.53	30	75.7	1
Nov. 6	47.94	105	69.3	6	62.62	16	71.9	8	12.70	12	3.3	4	45.23	26	75.6	4
16	46.89	99	68.7	11	62.46	13	71.1	11	12.58	10	3.7	3	44.97	23	75.2	10
26	45.90	91	67.6	16	62.33	11	70.0	15	12.48	6	4.0	4	44.74	18	74.2	13
Dez. 6	44.99	78	66.0	21	62.22	7	68.5	18	12.42	3	4.4	4	44.56	11	72.9	17
16	44.21	65	63.9	26	62.15	3	66.7	20	12.39	0	4.8	3	44.45	4	71.2	19
26	43.56	48	61.3	29	62.12	0	64.7	22	12.39	5	5.1	4	44.41	1	69.3	22
36	43.08		58.4		62.12		62.5		12.44		5.5		44.40		67.1	
Mittl. Ort	52.29		48.6		61.15		57.9		10.40		5.6		41.57		63.9	
	759)				760)				761)				764)			

1912	γ Cygni. 2ᵐ.3. AR.		Dekl. +		ϑ Cephei. 4ᵐ.1. AR.		Dekl. +		ε Delphini. 3ᵐ.9. AR.		Dekl. +		α Indi. 3ᵐ.0. AR.		Dekl. —	
	$20^h\ 19^m$		39° 58′		$20^h\ 28^m$		62° 41′		$20^h\ 28^m$		10° 59′		$20^h\ 31^m$		47° 35′	
Jan. 1	2.02	1	25.0	28	3.07	14	53.1	31	58.84	2	65.4	16	20.85	4	72.6	18
11	2.01	3	22.2	29	2.93	7	50.0	32	58.86	7	63.8	16	20.89	10	70.8	18
21	2.04	9	19.3	32	2.86	3	46.8	37	58.93	10	62.2	17	20.99	17	69.0	22
31	2.13	13	16.1	27	2.89	11	43.1	33	59.03	13	60.5	15	21.16	20	66.8	20
Febr. 10	2.26	18	13.4	25	3.00	20	39.8	31	59.16	17	59.0	12	21.36	24	64.8	21
20	2.44	21	10.9	23	3.20	28	36.7	28	59.33	19	57.8	10	21.60	29	62.7	20
März 1	2.65	26	8.6	17	3.48	35	33.9	24	59.52	22	56.8	7	21.89	33	60.7	20
11	2.91	28	6.9	13	3.83	41	31.5	19	59.74	24	56.1	3	22.22	36	58.7	18
21	3.19	32	5.6	7	4.24	46	29.6	12	59.98	27	55.8	1	22.58	38	56.9	18
31	3.51	33	4.9	1	4.70	49	28.4	7	60.25	28	55.9	4	22.96	41	55.1	16
April 10	3.84	35	4.8	4	5.19	52	27.7	0	60.53	30	56.3	9	23.37	43	53.5	14
20	4.19	36	5.2	10	5.71	53	27.7	6	60.83	30	57.2	12	23.80	44	52.1	12
30	4.55	35	6.2	15	6.24	52	28.3	13	61.13	31	58.4	15	24.24	45	50.9	9
Mai 10	4.90	34	7.7	20	6.76	49	29.6	17	61.44	31	59.9	17	24.69	44	50.0	7
20	5.24	33	9.7	23	7.25	47	31.3	24	61.75	30	61.6	20	25.13	43	49.3	4
30	5.57	30	12.0	28	7.72	41	33.7	27	62.05	28	63.6	21	25.56	40	48.9	0
Juni 9	5.87	26	14.8	29	8.13	36	36.4	31	62.33	26	65.7	23	25.96	38	48.9	2
19	6.13	22	17.7	31	8.49	28	39.5	33	62.59	22	68.0	22	26.34	34	49.1	5
29	6.35	17	20.8	33	8.77	21	42.8	35	62.81	19	70.2	22	26.68	29	49.6	9
Juli 9	6.52	13	24.1	32	8.98	13	46.3	36	63.00	15	72.4	21	26.97	23	50.5	11
19	6.65	7	27.3	32	9.11	4	49.9	36	63.15	11	74.5	20	27.20	17	51.6	13
29	6.72	2	30.5	30	9.15	4	53.5	36	63.26	6	76.5	18	27.37	11	52.9	15
Aug. 8	6.74	4	33.5	28	9.11	12	57.1	33	63.32	2	78.3	17	27.48	4	54.4	16
18	6.70	9	36.3	26	8.99	19	60.4	32	63.34	3	80.0	14	27.52	2	56.0	16
28	6.61	13	38.9	23	8.80	27	63.6	29	63.31	6	81.4	12	27.50	8	57.6	16
Sept. 7	6.48	17	41.2	19	8.53	33	66.5	26	63.25	10	82.6	9	27.42	13	59.2	15
17	6.31	20	43.1	16	8.20	38	69.1	21	63.15	12	83.5	7	27.29	18	60.7	13
27	6.11	22	44.7	11	7.82	42	71.2	17	63.03	15	84.2	4	27.11	21	62.0	11
Okt. 7	5.89	24	45.8	6	7.40	45	72.9	12	62.88	15	84.6	1	26.90	23	63.1	9
17	5.65	24	46.4	2	6.95	46	74.1	7	62.73	15	84.7	1	26.67	23	64.0	5
27	5.41	23	46.6	3	6.49	45	74.8	1	62.58	16	84.6	4	26.44	23	64.5	1
Nov. 6	5.18	22	46.3	7	6.04	45	74.9	5	62.42	13	84.2	6	26.21	21	64.6	1
16	4.96	19	45.6	13	5.59	41	74.4	10	62.29	12	83.6	9	26.00	17	64.5	6
26	4.77	16	44.3	16	5.18	38	73.4	16	62.17	9	82.7	11	25.83	14	63.9	9
Dez. 6	4.61	12	42.7	21	4.80	32	71.8	21	62.08	5	81.6	13	25.69	9	63.0	11
16	4.49	8	40.6	24	4.48	25	69.7	25	62.03	3	80.3	14	25.60	3	61.9	14
26	4.41	4	38.2	26	4.23	19	67.2	29	62.00	1	78.9	15	25.57	1	60.5	17
36	4.37		35.6		4.04		64.3		62.01		77.4		25.58		58.8	
Mittl. Ort	4.18		28.2		6.43		53.0		60.53		72.7		22.88		56.6	
	765)				767)				768)				769)			

1912	73 Draconis. 5ᵐ.3. AR.		Dekl. +		β Delphini. 3ᵐ.5. AR.		Dekl. +		υ Capricorni. 5ᵐ.5. AR.		Dekl. −		α Delphini. 3ᵐ.7. AR.		Dekl. +	
	20ʰ 32ᵐ		74° 38′		20ʰ 33ᵐ		14° 17′		20ʰ 35ᵐ		18° 26′		20ʰ 35ᵐ		15° 35′	
Jan. 1	35.35	36	72.9	30	23.64	2	11.6	18	0.90	4	69.2	1	31.33	1	57.2	18
11	34.99	22	69.9	32	23.66	5	9.8	17	0.94	7	69.1	1	31.34	5	55.4	18
21	34.77	7	66.7	37	23.71	10	8.1	19	1.01	13	69.0	2	31.39	10	53.6	20
31	34.70	10	63.0	34	23.81	13	6.2	16	1.14	15	68.8	4	31.49	12	51.6	17
Febr. 10	34.80	26	59.6	31	23.94	15	4.6	14	1.29	18	68.4	4	31.61	16	49.9	14
20	35.06	40	56.5	30	24.09	19	3.2	12	1.47	20	68.0	6	31.77	18	48.5	12
März 1	35.46	53	53.5	25	24.28	22	2.0	8	1.67	24	67.4	8	31.95	22	47.3	9
11	35.99	65	51.0	21	24.50	24	1.2	4	1.91	26	66.6	9	32.17	24	46.4	5
21	36.64	73	48.9	15	24.74	26	0.8	1	2.17	28	65.7	10	32.41	26	45.9	1
31	37.37	80	47.4	9	25.00	29	0.7	4	2.45	30	64.7	12	32.67	28	45.8	3
April 10	38.17	83	46.5	2	25.29	30	1.1	8	2.75	31	63.5	12	32.95	30	46.1	8
20	39.00	85	46.3	3	25.59	31	1.9	11	3.06	33	62.3	13	33.25	31	46.9	11
30	39.85	83	46.6	10	25.90	31	3.0	15	3.39	33	61.0	14	33.56	32	48.0	15
Mai 10	40.68	79	47.6	16	26.21	31	4.5	18	3.72	33	59.6	13	33.88	31	49.5	18
20	41.47	72	49.2	22	26.52	30	6.3	20	4.05	33	58.3	13	34.19	30	51.3	21
30	42.19	64	51.4	25	26.82	28	8.3	23	4.38	30	57.0	12	34.49	28	53.4	22
Juni 9	42.83	53	53.9	30	27.10	26	10.6	23	4.68	29	55.8	11	34.77	26	55.6	24
19	43.36	41	56.9	32	27.36	23	12.9	24	4.97	25	54.7	9	35.03	23	58.0	24
29	43.77	28	60.1	35	27.59	19	15.3	23	5.22	23	53.8	7	35.26	20	60.4	24
Juli 9	44.05	15	63.6	36	27.78	15	17.6	23	5.45	18	53.1	6	35.46	15	62.8	24
19	44.20	1	67.2	37	27.93	11	19.9	22	5.63	14	52.5	3	35.61	11	65.2	22
29	44.21	14	70.9	36	28.04	7	22.1	20	5.77	9	52.2	2	35.72	7	67.4	21
Aug. 8	44.07	26	74.5	35	28.11	1	24.1	18	5.86	4	52.0	0	35.79	2	69.5	19
18	43.81	40	78.0	33	28.12	2	25.9	16	5.90	1	52.0	1	35.81	3	71.4	17
28	43.41	51	81.3	31	28.10	6	27.5	13	5.89	5	52.1	3	35.78	6	73.1	14
Sept. 7	42.90	62	84.4	27	28.04	10	28.8	11	5.84	8	52.4	4	35.72	10	74.5	11
17	42.28	70	87.1	23	27.94	13	29.9	8	5.76	11	52.8	4	35.62	13	75.6	9
27	41.58	78	89.4	20	27.81	14	30.7	5	5.65	14	53.2	4	35.49	14	76.5	5
Okt. 7	40.80	83	91.4	14	27.67	16	31.2	3	5.51	15	53.6	5	35.35	16	77.0	3
17	39.97	85	92.8	9	27.51	16	31.5	1	5.36	15	54.1	4	35.19	16	77.3	0
27	39.12	87	93.7	4	27.35	15	31.4	3	5.21	15	54.5	4	35.03	16	77.3	3
Nov. 6	38.25	85	94.1	3	27.20	14	31.1	6	5.06	13	54.9	3	34.87	14	77.0	6
16	37.40	81	93.8	8	27.06	12	30.5	9	4.93	10	55.2	3	34.73	12	76.4	10
26	36.59	74	93.0	14	26.94	10	29.6	12	4.83	8	55.5	2	34.61	10	75.4	11
Dez. 6	35.85	67	91.6	19	26.84	6	28.4	13	4.75	5	55.7	2	34.51	7	74.3	14
16	35.18	56	89.7	24	26.78	4	27.1	16	4.70	1	55.9	1	34.44	3	72.9	16
26	34.62	44	87.3	28	26.74	1	25.5	17	4.69	2	56.0	0	34.41	0	71.3	17
36	34.18		84.5		26.75		23.8		4.71		56.0		34.41		69.6	
Mittl. Ort	40.88		71.5		25.35		18.2		2.53		56.9		33.04		63.6	
	770)				771)				773)				774)			

1912	β Pavonis. $3^m.3$.				α Cygni. $1^m.3$.				ε Cygni. $2^m.4$.				ε Aquarii. $3^m.6$.			
	AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. −	
	$20^h\ 36^m$		66° 31′		$20^h\ 38^m$		44° 57′		$20^h\ 42^m$		33° 38′		$20^h\ 42^m$		9° 48′	
Jan. 1	59.49	0	30.8	26	23.62	5	54.1	28	37.05	2	21.6	25	53.22	3	77.4	4
11	59.49	9	28.2	29	23.57	1	51.3	29	37.03	2	19.1	26	53.25	7	77.8	4
21	59.58	22	25.3	33	23.56	6	48.4	33	37.05	6	16.5	28	53.32	10	78.2	3
31	59.80	28	22.0	30	23.62	10	45.1	29	37.11	11	13.7	25	53.42	13	78.5	2
Febr. 10	60.08	36	19.0	28	23.72	16	42.2	27	37.22	15	11.2	23	53.55	17	78.7	0
20	60.44	44	16.2	28	23.88	20	39.5	25	37.37	18	8.9	20	53.72	19	78.7	1
März 1	60.88	50	13.4	26	24.08	24	37.0	20	37.55	22	6.9	16	53.91	22	78.6	3
11	61.38	56	10.8	24	24.32	29	35.0	15	37.77	26	5.3	12	54.13	24	78.3	5
21	61.94	61	8.4	22	24.61	32	33.5	10	38.03	28	4.1	7	54.37	26	77.8	8
31	62.55	65	6.2	18	24.93	34	32.5	4	38.31	31	3.4	2	54.63	29	77.0	10
April 10	63.20	68	4.4	14	25.27	37	32.1	2	38.62	33	3.2	4	54.92	30	76.0	11
20	63.88	69	3.0	11	25.64	38	32.3	8	38.95	34	3.6	9	55.22	32	74.9	13
30	64.57	70	1.9	7	26.02	38	33.1	13	39.29	34	4.5	14	55.54	31	73.6	15
Mai 10	65.27	69	1.2	3	26.40	36	34.4	18	39.63	33	5.9	19	55.85	32	72.1	15
20	65.96	67	0.9	1	26.76	36	36.2	23	39.96	33	7.8	22	56.17	32	70.6	15
30	66.63	63	1.0	6	27.12	32	38.5	27	40.29	30	10.0	25	56.49	30	69.1	16
Juni 9	67.26	59	1.6	9	27.44	29	41.2	29	40.59	28	12.5	28	56.79	28	67.5	14
19	67.85	51	2.5	13	27.73	25	44.1	32	40.87	24	15.3	30	57.07	25	66.1	14
29	68.36	44	3.8	17	27.98	20	47.3	33	41.11	19	18.3	30	57.32	22	64.7	13
Juli 9	68.80	35	5.5	19	28.18	15	50.6	34	41.30	16	21.3	31	57.54	17	63.4	11
19	69.15	25	7.4	22	28.33	9	54.0	33	41.46	11	24.4	30	57.71	14	62.3	9
29	69.40	15	9.6	24	28.42	4	57.3	33	41.57	6	27.4	30	57.85	9	61.4	7
Aug. 8	69.55	4	12.0	24	28.46	2	60.6	31	41.63	0	30.4	27	57.94	4	60.7	6
18	69.59	7	14.4	24	28.44	8	63.7	28	41.63	4	33.1	25	57.98	1	60.1	3
28	69.52	16	16.8	22	28.36	13	66.5	26	41.59	9	35.6	22	57.99	4	59.8	2
Sept. 7	69.36	25	19.0	21	28.23	18	69.1	22	41.50	12	37.8	19	57.95	8	59.6	0
17	69.11	33	21.1	17	28.05	20	71.3	19	41.38	16	39.7	16	57.87	11	59.6	1
27	68.78	39	22.8	15	27.85	24	73.2	14	41.22	18	41.3	12	57.76	13	59.7	2
Okt. 7	68.39	41	24.3	10	27.61	25	74.6	10	41.04	20	42.5	7	57.63	14	59.9	2
17	67.98	45	25.3	5	27.36	26	75.6	5	40.84	20	43.2	4	57.49	14	60.1	4
27	67.53	44	25.8	0	27.10	26	76.1	0	40.64	20	43.6	1	57.35	14	60.5	4
Nov. 6	67.09	41	25.8	5	26.84	25	76.1	5	40.44	19	43.5	5	57.21	13	60.9	4
16	66.68	36	25.3	10	26.59	22	75.6	10	40.25	18	43.0	10	57.08	11	61.3	5
26	66.32	31	24.3	15	26.37	20	74.6	15	40.07	14	42.0	14	56.97	8	61.8	5
Dez. 6	66.01	22	22.8	19	26.17	16	73.1	19	39.93	11	40.6	17	56.89	5	62.3	5
16	65.79	14	20.9	23	26.01	12	71.2	23	39.82	8	38.9	21	56.84	2	62.8	5
26	65.65	5	18.6	25	25.89	8	68.9	26	39.74	4	36.8	23	56.82	2	63.3	5
36	65.60		16.1		25.81		66.3		39.70		34.5		56.84		63.8	
Mittl. Ort	62.49		13.0		25.89		55.4		39.01		24.4		54.81		66.5	
	775)				777)				780)				781)			

1912	η Cephei. 3m.5. AR.	Diff.	Dekl. +	Diff.	λ Cygni. 4m.6. AR.	Diff.	Dekl. +	Diff.	β Indi. 3m.6. AR.	Diff.	Dekl. −	Diff.	32 Vulpecul. 5m.3. AR.	Diff.	Dekl. +	Diff.
	20h 43m		61° 29′		20h 43m		36° 9′		20h 47m		58° 47′		20h 50m		27° 43′	
Jan. 1	26.90	17	49.2	29	56.80	3	58.3	25	54.04	0	30.3	22	46.71	2	17.2	22
11	26.73	8	46.3	31	56.77	1	55.8	26	54.04	7	28.1	25	46.69	2	15.0	24
21	26.65	0	43.2	37	56.78	7	53.2	30	54.11	16	25.6	29	46.71	6	12.6	23
31	26.65	8	39.5	32	56.85	10	50.2	26	54.27	21	22.7	26	46.77	11	10.3	24
Febr. 10	26.73	17	36.3	31	56.95	14	47.6	24	54.48	27	20.1	27	46.88	14	7.9	21
20	26.90	24	33.2	28	57.09	18	45.2	21	54.75	33	17.4	26	47.02	17	5.8	18
März 1	27.14	32	30.4	24	57.27	23	43.1	18	55.08	38	14.8	25	47.19	21	4.0	14
11	27.46	37	28.0	20	57.50	26	41.3	12	55.46	43	12.3	24	47.40	24	2.6	10
21	27.83	43	26.0	13	57.76	28	40.1	8	55.89	46	9.9	21	47.64	26	1.6	5
31	28.26	47	24.7	8	58.04	32	39.3	3	56.35	50	7.8	19	47.90	29	1.1	1
April 10	28.73	49	23.9	2	58.36	33	39.0	3	56.85	53	5.9	17	48.19	31	1.0	4
20	29.22	51	23.7	5	58.69	34	39.3	9	57.38	54	4.2	13	48.50	33	1.4	10
30	29.73	52	24.2	11	59.03	35	40.2	14	57.92	56	2.9	10	48.83	33	2.4	13
Mai 10	30.25	49	25.3	17	59.38	34	41.6	18	58.48	56	1.9	6	49.16	32	3.7	19
20	30.74	47	27.0	22	59.72	33	43.4	22	59.04	54	1.3	2	49.48	32	5.6	21
30	31.21	42	29.2	26	60.05	31	45.6	26	59.58	51	1.1	1	49.80	30	7.7	24
Juni 9	31.63	37	31.8	30	60.36	28	48.2	28	60.09	48	1.2	6	50.10	28	10.1	27
19	32.00	31	34.8	33	60.64	24	51.0	30	60.57	43	1.8	9	50.38	24	12.8	28
29	32.31	24	38.1	35	60.88	21	54.0	31	61.00	38	2.7	12	50.62	21	15.6	28
Juli 9	32.55	16	41.6	36	61.09	15	57.1	32	61.38	30	3.9	16	50.83	16	18.4	29
19	32.71	8	45.2	37	61.24	11	60.3	31	61.68	23	5.5	18	50.99	12	21.3	28
29	32.79	0	48.9	36	61.35	5	63.4	30	61.91	15	7.3	20	51.11	7	24.1	27
Aug. 8	32.79	8	52.5	35	61.40	0	66.4	28	62.06	7	9.3	21	51.18	3	26.8	25
18	32.71	15	56.0	33	61.40	5	69.2	26	62.13	2	11.4	21	51.21	3	29.3	23
28	32.56	23	59.3	30	61.35	9	71.8	23	62.11	9	13.5	21	51.18	7	31.6	21
Sept. 7	32.33	29	62.3	27	61.26	13	74.1	20	62.02	17	15.6	20	51.11	10	33.7	17
17	32.04	34	65.0	23	61.13	16	76.1	16	61.85	23	17.6	17	51.01	14	35.4	14
27	31.70	38	67.3	19	60.97	19	77.7	13	61.62	27	19.3	14	50.87	16	36.8	10
Okt. 7	31.32	41	69.2	14	60.78	21	79.0	8	61.35	31	20.7	11	50.71	17	37.8	7
17	30.91	43	70.6	9	60.57	21	79.8	4	61.04	32	21.8	7	50.54	19	38.5	3
27	30.48	43	71.5	4	60.36	22	80.2	0	60.72	32	22.5	2	50.35	18	38.8	1
Nov. 6	30.05	42	71.9	3	60.14	20	80.2	5	60.40	30	22.7	2	50.17	17	38.7	5
16	29.63	40	71.6	8	59.94	18	79.7	10	60.10	27	22.5	7	50.00	15	38.2	9
26	29.23	37	70.8	13	59.76	15	78.7	14	59.83	22	21.8	11	49.85	13	37.3	12
Dez. 6	28.86	32	69.5	19	59.61	13	77.3	18	59.61	16	20.7	16	49.72	10	36.1	16
16	28.54	26	67.6	24	59.48	9	75.5	21	59.45	11	19.1	18	49.62	7	34.5	19
26	28.28	19	65.2	27	59.39	5	73.4	24	59.34	3	17.3	21	49.55	4	32.6	21
36	28.09		62.5		59.34		71.0		59.31		15.1		49.51		30.5	
Mittl. Ort	30.10		48.1		58.81		60.7		56.36		12.5		48.54		20.7	
	783)				784)				785)				786)			

1912	ν Cygni. 3ᵐ.9. AR.	Δ	Dekl. +	Δ	ζ Microscopii. 5ᵐ.4. AR.	Δ	Dekl. —	Δ	61 Cygni pr.*). 5ᵐ.4. AR.	Δ	Dekl. +	Δ	ν Aquarii. 4ᵐ.4. AR.	Δ	Dekl. —	Δ
	$20^h\,53^m$		$40°\,49'$		$20^h\,57^m$		$38°\,58'$		$21^h\,2^m$		$38°\,18'$		$21^h\,4^m$		$11°\,43'$	
Jan. 1	51.40	5	39.2	26	19.06	2	48.6	12	55.06	4	57.0	23	46.63	2	54.0	3
11	51.35	1	36.6	27	19.08	6	47.4	14	55.02	0	54.7	26	46.65	4	54.3	2
21	51.34	3	33.9	28	19.14	10	46.0	15	55.02	4	52.1	26	46.69	8	54.5	1
31	51.37	9	31.1	31	19.24	16	44.5	18	55.06	9	49.5	28	46.77	12	54.6	0
Febr. 10	51.46	14	28.0	26	19.40	19	42.7	17	55.15	14	46.7	24	46.89	14	54.6	1
20	51.60	17	25.4	23	19.59	22	41.0	18	55.29	18	44.3	21	47.03	17	54.5	4
März 1	51.77	23	23.1	19	19.81	25	39.2	19	55.47	22	42.2	18	47.20	20	54.1	5
11	52.00	25	21.2	15	20.06	30	37.3	18	55.69	26	40.4	13	47.40	23	53.6	7
21	52.25	30	19.7	10	20.36	32	35.5	18	55.95	29	39.1	8	47.63	25	52.9	10
31	52.55	32	18.7	4	20.68	34	33.7	18	56.24	32	38.3	3	47.88	28	51.9	11
April 10	52.87	35	18.3	1	21.02	36	31.9	16	56.56	34	38.0	2	48.16	29	50.8	12
20	53.22	35	18.4	7	21.38	39	30.3	15	56.90	36	38.2	9	48.45	31	49.6	15
30	53.57	37	19.1	13	21.77	39	28.8	14	57.26	37	39.1	13	48.76	32	48.1	15
Mai 10	53.94	36	20.4	17	22.16	40	27.4	11	57.63	36	40.4	18	49.08	33	46.6	16
20	54.30	34	22.1	22	22.56	39	26.3	9	57.99	35	42.2	23	49.41	32	45.0	16
30	54.64	33	24.3	25	22.95	37	25.4	6	58.34	33	44.5	26	49.73	31	43.4	16
Juni 9	54.97	30	26.8	28	23.32	36	24.8	4	58.67	31	47.1	29	50.04	29	41.8	15
19	55.27	26	29.6	31	23.68	32	24.4	0	58.98	27	50.0	31	50.33	27	40.3	14
29	55.53	21	32.7	32	24.00	28	24.4	2	59.25	24	53.1	32	50.60	24	38.9	12
Juli 9	55.74	17	35.9	33	24.28	24	24.6	5	59.49	18	56.3	33	50.84	20	37.7	10
19	55.91	12	39.2	33	24.52	19	25.1	7	59.67	13	59.6	33	51.04	16	36.7	9
29	56.03	6	42.5	31	24.71	13	25.8	10	59.80	8	62.9	32	51.20	11	35.8	6
Aug. 8	56.09	0	45.6	31	24.84	7	26.8	11	59.88	3	66.1	30	51.31	7	35.2	4
18	56.09	5	48.7	28	24.91	1	27.9	13	59.91	3	69.1	29	51.38	2	34.8	3
28	56.04	9	51.5	25	24.92	3	29.2	13	59.88	7	72.0	25	51.40	2	34.5	1
Sept. 7	55.95	14	54.0	22	24.89	9	30.5	13	59.81	11	74.5	23	51.38	6	34.4	1
17	55.81	17	56.2	19	24.80	13	31.8	12	59.70	15	76.8	19	51.32	9	34.5	2
27	55.64	20	58.1	15	24.67	16	33.0	12	59.55	17	78.7	16	51.23	12	34.7	3
Okt. 7	55.44	22	59.6	10	24.51	18	34.2	9	59.38	20	80.3	11	51.11	13	35.0	4
17	55.22	23	60.6	6	24.33	19	35.1	7	59.18	20	81.4	7	50.98	14	35.4	4
27	54.99	23	61.2	1	24.14	19	35.8	5	58.98	21	82.1	2	50.84	14	35.8	4
Nov. 6	54.76	22	61.3	3	23.95	18	36.3	2	58.77	20	82.3	3	50.70	13	36.2	5
16	54.54	21	61.0	8	23.77	15	36.5	1	58.57	18	82.0	7	50.57	11	36.7	5
26	54.33	18	60.2	14	23.62	12	36.4	4	58.39	16	81.3	12	50.46	9	37.2	4
Dez. 6	54.15	15	58.8	17	23.50	9	36.0	6	58.23	13	80.1	15	50.37	7	37.6	4
16	54.00	11	57.1	21	23.41	5	35.4	10	58.10	10	78.6	19	50.30	3	38.0	4
26	53.89	8	55.0	24	23.36	1	34.4	11	58.00	6	76.7	22	50.27	0	38.4	3
36	53.81		52.6		23.35		33.3		57.94		74.5		50.27		38.7	
Mittl. Ort	53.51		40.2		20.76		32.7		57.09		58.2		48.13		42.8	
	788)				790)				793)				794)			

*) Die jährliche Parallaxe ist bereits angebracht.

1912	Br. 2777. $6^m.0$ AR.	Δ	Dekl. +	Δ	ζ Cygni. $3^m.1$ AR.	Δ	Dekl. +	Δ	α Equulei. $3^m.9$ AR.	Δ	Dekl. +	Δ	α Cephei. $2^m.5$ AR.	Δ	Dekl. +	Δ
	$21^h\ 7^m$		$77°\ 45'$		$21^h\ 9^m$		$29°\ 51'$		$21^h\ 11^m$		$4°\ 52'$		$21^h\ 16^m$		$62°\ 12'$	
Jan. 1	10.12	60	75.6	26	9.60	4	53.5	22	23.99	0	52.9	11	25.63	22	48.5	26
11	9.52	45	73.0	30	9.56	0	51.3	23	23.99	3	51.8	12	25.41	14	45.9	29
21	9.07	26	70.0	32	9.56	3	49.0	24	24.02	6	50.6	11	25.27	7	43.0	31
31	8.81	7	66.8	37	9.59	9	46.6	25	24.08	10	49.5	11	25.20	2	39.9	35
Febr. 10	8.74	14	63.1	32	9.68	11	44.1	21	24.18	12	48.4	8	25.22	9	36.4	32
20	8.88	34	59.9	31	9.79	16	42.0	19	24.30	15	47.6	6	25.31	18	33.2	30
März 1	9.22	52	56.8	28	9.95	19	40.1	16	24.45	19	47.0	4	25.49	27	30.2	26
11	9.74	68	54.0	24	10.14	22	38.5	11	24.64	21	46.6	0	25.76	33	27.6	23
21	10.42	81	51.6	19	10.36	26	37.4	7	24.85	24	46.6	3	26.09	40	25.3	17
31	11.23	91	49.7	13	10.62	29	36.7	2	25.09	27	46.9	6	26.49	45	23.6	11
April 10	12.14	99	48.4	7	10.91	30	36.5	3	25.36	28	47.5	9	26.94	49	22.5	6
20	13.13	103	47.7	1	11.21	33	36.8	8	25.64	30	48.4	12	27.43	51	21.9	1
30	14.16	104	47.6	5	11.54	33	37.6	12	25.94	31	49.6	15	27.94	53	22.0	7
Mai 10	15.20	101	48.1	11	11.87	34	38.8	17	26.25	32	51.1	17	28.47	52	22.7	13
20	16.21	95	49.2	17	12.21	33	40.5	21	26.57	31	52.8	19	28.99	51	24.0	18
30	17.16	87	50.9	22	12.54	31	42.6	24	26.88	30	54.7	20	29.50	47	25.8	23
Juni 9	18.03	75	53.1	26	12.85	29	45.0	26	27.18	28	56.7	21	29.97	42	28.1	27
19	18.78	62	55.7	30	13.14	27	47.6	28	27.46	26	58.8	21	30.39	37	30.8	31
29	19.40	47	58.7	33	13.41	22	50.4	29	27.72	23	60.9	20	30.76	30	33.9	34
Juli 9	19.87	31	62.0	36	13.63	19	53.3	30	27.95	19	62.9	19	31.06	23	37.3	36
19	20.18	15	65.6	36	13.82	13	56.3	29	28.14	15	64.8	18	31.29	15	40.9	36
29	20.33	3	69.2	37	13.95	9	59.2	28	28.29	11	66.6	16	31.44	7	44.5	37
Aug. 8	20.30	19	72.9	37	14.04	4	62.0	27	28.40	7	68.2	14	31.51	1	48.2	36
18	20.11	35	76.6	36	14.08	1	64.7	24	28.47	2	69.6	12	31.50	9	51.8	35
28	19.76	51	80.2	34	14.07	5	67.1	22	28.49	3	70.8	10	31.41	16	55.3	33
Sept. 7	19.25	65	83.6	31	14.02	9	69.3	20	28.46	6	71.8	8	31.25	24	58.6	30
17	18.60	77	86.7	28	13.93	12	71.3	16	28.40	9	72.6	5	31.01	29	61.6	26
27	17.83	87	89.5	24	13.81	16	72.9	12	28.31	11	73.1	3	30.72	35	64.2	23
Okt. 7	16.96	97	91.9	20	13.65	17	74.1	9	28.20	13	73.4	1	30.37	38	66.5	18
17	15.99	102	93.9	15	13.48	18	75.0	5	28.07	14	73.5	1	29.99	41	68.3	13
27	14.97	106	95.4	9	13.30	18	75.5	1	27.93	14	73.4	3	29.58	42	69.6	8
Nov. 6	13.91	107	96.3	4	13.12	18	75.6	3	27.79	13	73.1	4	29.16	43	70.4	2
16	12.84	106	96.7	2	12.94	16	75.3	8	27.66	12	72.7	7	28.73	41	70.6	3
26	11.78	99	96.5	8	12.78	14	74.5	11	27.54	10	72.0	8	28.32	39	70.3	10
Dez. 6	10.79	93	95.7	14	12.64	12	73.4	14	27.44	7	71.2	9	27.93	35	69.3	15
16	9.86	82	94.3	19	12.52	9	72.0	18	27.37	5	70.3	10	27.58	31	67.8	20
26	9.04	69	92.4	24	12.43	5	70.2	21	27.32	1	69.3	12	27.27	24	65.8	24
36	8.35		90.0		12.38		68.1		27.31		68.1		27.03		63.4	
Mittl. Ort	16.74		71.0		11.41		55.7		25.52		60.5		28.80		44.8	
	795)				797)				800)				803)			

1912	ι Pegasi. $4^m.2$. AR.		Dekl. +		γ Pavonis. $4^m.2$. AR.		Dekl. —		ζ Capricorni. $3^m.8$. AR.		Dekl. —		β Aquarii. $2^m.9$. AR.		Dekl. —	
	$21^h\ 17^m$		$19°\ 25'$		$21^h\ 19^m$		$65°\ 45'$		$21^h\ 21^m$		$22°\ 47'$		$21^h\ 26^m$		$5°\ 57'$	
Jan. 1	^{s}59.35		$''$34.8		^{s}8.43		$''$74.2		^{s}37.29		$''$48.6		^{s}54.22		$''$41.5	
11	59.32	3	33.0	18	8.34	9	71.7	25	37.29	0	48.3	3	54.21	1	42.1	6
21	59.33	1	31.2	18	8.33	1	69.0	27	37.31	2	47.8	5	54.23	2	42.6	5
31	59.37	4	29.4	18	8.40	7	66.0	30	37.38	7	47.3	5	54.28	5	43.0	4
Febr. 10	59.45	8	27.4	20	8.58	18	62.6	34	37.49	11	46.5	8	54.37	9	43.3	3
20	59.56	11	25.8	16	8.83	25	59.5	31	37.62	13	45.6	9	54.49	12	43.5	2
März 1	59.71	15	24.4	14	9.16	33	56.4	31	37.79	17	44.5	11	54.63	14	43.4	1
11	59.89	18	23.3	11	9.55	39	53.4	30	37.99	20	43.4	11	54.81	18	43.1	3
21	60.10	21	22.6	7	10.01	46	50.5	29	38.21	22	42.0	14	55.01	20	42.6	5
31	60.33	23	22.3	3	10.53	52	47.8	27	38.47	26	40.6	14	55.25	24	41.9	7
April 10	60.60	27	22.4	1	11.10	57	45.4	24	38.75	28	39.0	16	55.50	25	40.9	10
20	60.89	29	22.9	5	11.71	61	43.4	20	39.05	30	37.4	16	55.79	29	39.6	13
30	61.20	31	23.9	10	12.35	64	41.6	18	39.37	32	35.8	16	56.08	29	38.2	14
Mai 10	61.51	31	25.2	13	13.02	67	40.3	13	39.71	34	34.2	16	56.40	32	36.6	16
20	61.83	32	26.9	17	13.69	67	39.4	9	40.05	34	32.6	16	56.72	32	34.9	17
30	62.15	32	28.9	20	14.36	67	38.9	5	40.39	34	31.1	15	57.04	32	33.1	18
Juni 9	62.46	31	31.2	23	15.00	64	38.8	1	40.73	34	29.8	13	57.35	31	31.3	18
19	62.75	29	33.6	24	15.62	62	39.2	4	41.05	32	28.6	12	57.65	30	29.5	18
29	63.01	26	36.1	25	16.18	56	40.1	9	41.34	29	27.6	10	57.92	27	27.9	16
Juli 9	63.24	23	38.7	26	16.68	50	41.3	12	41.61	27	26.9	7	58.17	25	26.3	16
19	63.44	20	41.3	26	17.09	41	42.9	16	41.84	23	26.3	6	58.38	21	24.9	14
29	63.59	15	43.8	25	17.42	33	44.8	19	42.02	18	26.1	2	58.55	17	23.6	13
Aug. 8	63.69	10	46.2	24	17.66	24	47.0	22	42.16	14	26.1	0	58.68	13	22.6	10
18	63.75	6	48.4	22	17.79	13	49.3	23	42.25	9	26.2	1	58.77	9	21.8	8
28	63.76	1	50.4	20	17.81	2	51.7	24	42.29	4	26.6	4	58.81	4	21.1	7
Sept. 7	63.74	2	52.1	17	17.74	7	54.2	25	42.29	0	27.1	5	58.81	0	20.7	4
17	63.67	7	53.6	15	17.57	17	56.5	23	42.24	5	27.8	7	58.77	4	20.5	2
27	63.57	10	54.9	13	17.33	24	58.5	20	42.15	9	28.5	7	58.69	8	20.4	1
Okt. 7	63.45	12	55.8	9	17.00	33	60.3	18	42.04	11	29.2	7	58.59	10	20.5	1
17	63.31	14	56.4	6	16.63	37	61.8	15	41.91	13	29.9	7	58.47	12	20.7	2
27	63.15	16	56.7	3	16.22	41	62.8	10	41.76	15	30.6	7	58.34	13	21.1	4
Nov. 6	63.00	15	56.7	0	15.79	43	63.3	5	41.62	14	31.2	6	58.20	14	21.5	4
16	62.85	15	56.3	4	15.39	40	63.3	0	41.48	14	31.6	4	58.08	12	22.0	5
26	62.71	14	55.6	7	15.00	39	62.8	5	41.35	13	32.0	4	57.96	12	22.5	5
Dez. 6	62.60	11	54.7	9	14.66	34	61.7	11	41.25	10	32.2	2	57.86	10	23.1	6
16	62.50	10	53.5	12	14.37	29	60.2	15	41.17	8	32.2	0	57.79	7	23.7	6
26	62.43	7	52.0	15	14.15	22	58.2	20	41.12	5	32.1	1	57.74	5	24.3	6
36	62.39	4	50.4	16	14.02	13	55.9	23	41.10	2	31.9	2	57.72	2	24.9	6
Mittl. Ort	60.98		38.9		10.80		54.4		38.72		35.0		55.64		31.7	
	804)				805)				806)				808)			

1912	β Cephei. $3^m.1$.				ν Octantis. $3^m.7$.				74 Cygni. $5^m.1$.				ε Pegasi. $2^m.3$.			
	AR.		Dekl. +		AR.		Dekl. −		AR.		Dekl. +		AR.		Dekl. +	
	$21^h\,27^m$		70° 10′		$21^h\,31^m$		77° 46′		$21^h\,33^m$		40° 0′		$21^h\,39^m$		9° 28′	
Jan. 1	27.61	37	32.9	25	39.92	34	74.7	28	23.27	9	65.2	22	50.38	3	10.1	13
11	27.24	28	30.4	28	39.58	18	71.9	32	23.18	5	63.0	25	50.35	1	8.8	13
21	26.96	17	27.6	31	39.40	0	68.7	34	23.13	1	60.5	26	50.34	3	7.5	12
31	26.79	6	24.5	36	39.40	17	65.3	34	23.12	3	57.9	26	50.37	6	6.3	12
Febr. 10	[9]26.73	7	20.9	33	[10]39.57	38	61.9	39	[10]23.15	9	55.3	28	[12]50.43	10	5.1	12
20	26.80	18	17.6	31	39.95	50	58.0	35	23.24	13	52.5	24	50.53	13	3.9	8
März 1	26.98	31	14.5	28	40.45	65	54.5	34	23.37	18	50.1	20	50.66	15	3.1	6
11	27.29	41	11.7	25	41.10	78	51.1	31	23.55	22	48.1	17	50.81	19	2.5	2
21	27.70	49	9.2	19	41.88	90	48.0	30	23.77	26	46.4	12	51.00	22	2.3	1
31	28.19	58	7.3	15	42.78	100	45.0	25	24.03	29	45.2	6	51.22	25	2.4	4
April 10	28.77	63	5.8	8	43.78	109	42.5	23	24.32	33	44.6	2	51.47	27	2.8	8
20	29.40	67	5.0	2	44.87	115	40.3	18	24.65	34	44.4	4	51.74	29	3.6	11
30	30.07	69	4.8	4	46.02	120	38.5	14	24.99	36	44.8	10	52.03	31	4.7	14
Mai 10	30.76	68	5.2	10	47.22	119	37.1	8	25.35	37	45.8	14	52.34	32	6.1	17
20	31.44	66	6.2	16	48.41	121	36.3	4	25.72	36	47.2	19	52.66	32	7.8	19
30	32.10	62	7.8	21	49.62	116	35.9	2	26.08	35	49.1	23	52.98	31	9.7	21
Juni 9	32.72	55	9.9	26	50.78	111	36.1	6	26.43	33	51.4	26	53.29	30	11.8	22
19	33.27	48	12.5	30	51.89	101	36.7	11	26.76	29	54.0	29	53.59	27	14.0	23
29	33.75	40	15.5	33	52.90	90	37.8	16	27.05	26	56.9	31	53.86	25	16.3	22
Juli 9	34.15	29	18.8	35	53.80	77	39.4	20	27.31	22	60.0	32	54.11	21	18.5	22
19	34.44	20	22.3	36	54.57	60	41.4	22	27.53	16	63.2	33	54.32	18	20.7	21
29	34.64	9	25.9	38	55.17	42	43.6	26	27.69	11	66.5	32	54.50	13	22.8	19
Aug. 8	34.73	3	29.7	37	55.59	24	46.2	27	27.80	6	69.7	31	54.63	9	24.7	17
18	34.70	12	33.4	36	55.83	4	48.9	28	27.86	1	72.8	30	54.72	4	26.4	15
28	34.58	23	37.0	35	55.87	15	51.7	28	27.87	4	75.8	27	54.76	1	27.9	13
Sept. 7	34.35	32	40.5	32	55.72	33	54.5	26	27.83	9	78.5	25	54.77	4	29.2	11
17	34.03	40	43.7	29	55.39	50	57.1	25	27.74	12	81.0	21	54.73	7	30.3	9
27	33.63	48	46.6	26	54.89	65	59.6	20	27.62	16	83.1	18	54.66	10	31.2	6
Okt. 7	33.15	54	49.2	21	54.24	76	61.6	17	27.46	19	84.9	14	54.56	11	31.8	3
17	32.61	57	51.3	17	53.48	85	63.3	11	27.27	20	86.3	10	54.45	13	32.1	1
27	32.04	61	53.0	11	52.63	89	64.4	5	27.07	22	87.3	5	54.32	14	32.2	1
Nov. 6	31.43	62	54.1	5	51.74	91	64.9	1	26.85	21	87.8	1	54.18	13	32.1	4
16	30.81	61	54.6	0	50.83	85	65.0	6	26.64	20	87.9	4	54.05	13	31.7	6
26	30.20	59	54.6	7	49.98	79	64.4	12	26.44	18	87.5	9	53.92	10	31.1	7
Dez. 6	29.61	54	53.9	12	49.19	70	63.2	18	26.26	17	86.6	13	53.82	9	30.4	9
16	29.07	49	52.7	17	48.49	57	61.4	22	26.09	14	85.3	17	53.73	7	29.5	11
26	28.58	41	51.0	23	47.92	42	59.2	27	25.95	10	83.6	21	53.66	5	28.4	12
36	28.17		48.7		47.50		56.5		25.85		81.5		53.61		27.2	
Mittl. Ort	31.77		27.3		43.67		53.7		25.23		64.0		51.83		15.8	
	809)				810)				811)				815)			

1912	δ Capricorni. 2ᵐ.8. AR.		Dekl. −		π² Cygni. 4ᵐ.3. AR.		Dekl. +		γ Gruis. 3ᵐ.0. AR.		Dekl. −		16 Pegasi. 5ᵐ.2. AR.		Dekl. +	
	$21^h\,42^m$		16° 31′		$21^h\,43^m$		48° 53′		$21^h\,48^m$		37° 46′		$21^h\,49^m$		25° 30′	
Jan. 1	9.80ˢ	2	49.8″	0	30.24ˢ	14	70.7″	23	34.87ˢ	4	62.2″	10	1.83ˢ	6	37.2″	18
11	9.78	1	49.8	1	30.10	10	68.4	26	34.83	0	61.2	13	1.77	3	35.4	19
21	9.79	4	49.7	2	30.00	5	65.8	28	34.83	3	59.9	15	1.74	0	33.5	20
31	9.83	8	49.5	4	29.95	0	63.0	29	34.86	8	58.4	17	1.74	3	31.5	20
Febr. 10	9.91	11	49.1	6	29.95	7	60.1	31	34.94	12	56.7	20	1.77	8	29.5	21
20	(12) 10.02	14	48.5	7	(13) 30.02	12	57.0	27	(11) 35.06	16	54.7	20	(14) 1.85	11	27.4	17
März 1	10.16	17	47.8	9	30.14	18	54.3	24	35.22	19	52.7	21	1.96	15	25.7	14
11	10.33	20	46.9	11	30.32	23	51.9	20	35.41	22	50.6	22	2.11	19	24.3	10
21	10.53	23	45.8	13	30.55	27	49.9	15	35.63	27	48.4	21	2.30	22	23.3	7
31	10.76	26	44.5	14	30.82	33	48.4	11	35.90	30	46.3	22	2.52	25	22.6	2
April 10	11.02	28	43.1	16	31.15	35	47.3	4	36.20	33	44.1	21	2.77	29	22.4	2
20	11.30	30	41.5	16	31.50	39	46.9	1	36.53	35	42.0	20	3.06	30	22.6	7
30	11.60	32	39.9	17	31.89	40	47.0	6	36.88	37	40.0	18	3.36	32	23.3	11
Mai 10	11.92	33	38.2	17	32.29	40	47.6	12	37.25	39	38.2	17	3.68	33	24.4	15
20	12.25	34	36.5	17	32.69	41	48.8	18	37.64	38	36.5	15	4.01	33	25.9	19
30	12.59	33	34.8	17	33.10	39	50.6	22	38.02	39	35.0	11	4.34	33	27.8	22
Juni 9	12.92	32	33.1	15	33.49	37	52.8	25	38.41	38	33.9	9	4.67	31	30.0	24
19	13.24	30	31.6	13	33.86	33	55.3	29	38.79	35	33.0	6	4.98	29	32.4	26
29	13.54	27	30.3	11	34.19	29	58.2	32	39.14	32	32.4	2	5.27	26	35.0	28
Juli 9	13.81	23	29.2	9	34.48	24	61.4	34	39.46	28	32.2	1	5.53	22	37.8	28
19	14.04	20	28.3	7	34.72	18	64.8	34	39.74	24	32.3	5	5.75	18	40.6	27
29	14.24	15	27.6	5	34.90	13	68.2	35	39.98	18	32.8	7	5.93	14	43.3	27
Aug. 8	14.39	10	27.1	3	35.03	6	71.7	34	40.16	14	33.5	9	6.07	9	46.0	26
18	14.49	6	26.8	0	35.09	1	75.1	33	40.30	7	34.4	12	6.16	4	48.6	24
28	14.55	1	26.8	2	35.10	5	78.4	31	40.37	2	35.6	14	6.20	0	51.0	21
Sept. 7	14.56	2	27.0	4	35.05	10	81.5	28	40.39	3	37.0	14	6.20	5	53.1	19
17	14.54	6	27.4	4	34.95	15	84.3	26	40.36	8	38.4	14	6.15	7	55.0	17
27	14.48	10	27.8	6	34.80	19	86.9	22	40.28	12	39.8	14	6.08	11	56.7	13
Okt. 7	14.38	11	28.4	6	34.61	22	89.1	18	40.16	14	41.2	13	5.97	14	58.0	10
17	14.27	13	29.0	6	34.39	24	90.9	13	40.02	17	42.5	11	5.83	14	59.0	7
27	14.14	14	29.6	6	34.15	26	92.2	8	39.85	17	43.6	9	5.69	16	59.7	3
Nov. 6	14.00	13	30.2	5	33.89	26	93.0	3	39.68	18	44.5	6	5.53	15	60.0	1
16	13.87	12	30.7	5	33.63	25	93.3	2	39.50	16	45.1	3	5.38	15	59.9	4
26	13.75	10	31.2	5	33.38	24	93.1	7	39.34	15	45.4	0	5.23	14	59.5	8
Dez. 6	13.65	8	31.7	3	33.14	22	92.4	11	39.19	12	45.4	3	5.09	12	58.7	11
16	13.57	6	32.0	2	32.92	20	91.3	17	39.07	9	45.1	6	4.97	10	57.6	14
26	13.51	4	32.2	1	32.72	16	89.6	21	38.98	6	44.5	9	4.87	8	56.2	16
36	13.47		32.3		32.56		87.5		38.92		43.6		4.79		54.6	
Mittl. Ort	11.13		37.5		32.46		67.0		36.22		45.2		3.43		38.5	
	819)				821)				822)				823)			

1912	α Aquarii. 2m.9. AR.		Dekl. —		ι Aquarii. 4m.2. AR.		Dekl. —		20 Cephei. 5m.7. AR.		Dekl. +		α Gruis. 1m.8. AR.		Dekl. —	
	$22^h\ 1^m$		0° 44′		$22^h\ 1^m$		14° 17′		$22^h\ 2^m$		62° 21′		$22^h\ 2^m$		47° 23′	
	s		″		s		″		s		″		s		″	
Jan. 1	14.59	4	59.9	7	39.94	4	60.7	2	17.05	29	29.0	22	40.22	8	34.8	14
11	14.55	1	60.6	8	39.90	0	60.9	0	16.76	22	26.8	25	40.14	4	33.4	18
21	14.54	— 1	61.4	6	39.90	2	60.9	1	16.54	15	24.3	29	40.10	— 1	31.6	20
31	14.55	5	62.0	5	39.92	5	60.8	3	16.39	8	21.4	30	40.11	6	29.6	22
Febr. 10	14.60	8	62.5	5	39.97	9	60.5	5	16.31	0	18.4	34	40.17	11	27.4	26
20	17 14.68	11	63.0	2	17 40.06	11	60.0	7	17 16.31	9	15.0	30	18 40.28	15	24.8	25
März 1	14.79	14	63.2	— 1	40.17	15	59.3	8	16.40	18	12.0	28	40.43	19	22.3	26
11	14.93	17	63.1	3	40.32	18	58.5	10	16.58	25	9.2	25	40.62	24	19.7	27
21	15.10	20	62.8	6	40.50	21	57.5	13	16.83	33	6.7	21	40.86	28	17.0	26
31	15.30	24	62.2	8	40.71	24	56.2	14	17.16	40	4.6	16	41.14	32	14.4	25
April 10	15.54	26	61.4	11	40.95	26	54.8	16	17.56	46	3.0	11	41.46	36	11.9	24
20	15.80	28	60.3	14	41.21	30	53.2	17	18.02	49	1.9	4	41.82	39	9.5	22
30	16.08	30	58.9	16	41.51	31	51.5	18	18.51	53	1.5	— 2	42.21	41	7.3	20
Mai 10	16.38	32	57.3	17	41.82	32	49.7	18	19.04	53	1.7	8	42.62	43	5.3	17
20	16.70	32	55.6	19	42.14	33	47.9	18	19.57	54	2.5	13	43.05	44	3.6	15
30	17.02	32	53.7	20	42.47	33	46.1	18	20.11	51	3.8	19	43.49	44	2.1	11
Juni 9	17.34	31	51.7	20	42.80	32	44.3	16	20.62	49	5.7	23	43.93	43	1.0	6
19	17.65	29	49.7	20	43.12	31	42.7	16	21.11	44	8.0	28	44.36	40	0.4	3
29	17.94	26	47.7	18	43.43	27	41.1	13	21.55	38	10.8	31	44.76	38	0.1	0
Juli 9	18.20	24	45.9	18	43.70	25	39.8	12	21.93	32	13.9	33	45.14	33	0.1	5
19	18.44	20	44.1	16	43.95	21	38.6	9	22.25	25	17.2	36	45.47	28	0.6	9
29	18.64	15	42.5	14	44.16	17	37.7	6	22.50	17	20.8	37	45.75	22	1.5	11
Aug. 8	18.79	12	41.1	12	44.33	12	37.1	4	22.67	9	24.5	37	45.97	17	2.6	14
18	18.91	7	39.9	10	44.45	8	36.7	2	22.76	1	28.2	36	46.14	9	4.0	17
28	18.98	3	38.9	8	44.53	3	36.5	0	22.77	— 6	31.8	35	46.23	4	5.7	18
Sept. 7	19.01	— 1	38.1	6	44.56	— 1	36.5	2	22.71	14	35.3	34	46.27	— 3	7.5	19
17	19.00	5	37.5	3	44.55	4	36.7	4	22.57	21	38.7	31	46.24	8	9.4	19
27	18.95	8	37.2	1	44.51	8	37.1	5	22.36	26	41.8	27	46.16	13	11.3	17
Okt. 7	18.87	10	37.1	0	44.43	10	37.6	6	22.10	32	44.5	24	46.03	17	13.0	17
17	18.77	11	37.1	2	44.33	12	38.2	6	21.78	35	46.9	19	45.86	19	14.7	14
27	18.66	12	37.3	3	44.21	12	38.8	6	21.43	38	48.8	14	45.67	21	16.1	10
Nov. 6	18.54	12	37.6	4	44.09	13	39.4	6	21.05	40	50.2	9	45.46	22	17.1	7
16	18.42	12	38.0	6	43.96	12	40.0	5	20.65	40	51.1	3	45.24	21	17.8	3
26	18.20	11	38.6	6	43.84	11	40.5	5	20.25	40	51.4	— 3	45.03	19	18.1	— 1
Dez. 6	18.19	9	39.2	7	43.73	9	41.0	4	19.85	38	51.1	8	44.84	17	18.0	5
16	18.10	7	39.9	7	43.64	7	41.4	4	19.47	34	50.3	14	44.67	14	17.5	8
26	18.03	5	40.6	8	43.57	5	41.8	1	19.13	31	48.9	19	44.53	10	16.7	13
36	17.98		41.4		43.52		41.9		18.82		47.0		44.43		15.4	
Mittl. Ort	15.88		52.0		41.17		49.2		19.98		21.8		41.53		15.8	
	827)				828)				830)				829)			

1912	ϑ Pegasi. 3ᵐ.6. AR.	Diff.	Dekl. +	Diff.	π Pegasi. 4ᵐ.3. AR.	Diff.	Dekl. +	Diff.	ζ Cephei. 3ᵐ.4. AR.	Diff.	Dekl. +	Diff.	24 Cephei. 4ᵐ.8. AR.	Diff.	Dekl. +	Diff.
	$22^h 5^m$		5° 45′		$22^h 6^m$		32° 44′		$22^h 7^m$		57° 45′		$22^h 8^m$		71° 54′	
Jan. 1	44.34	4	46.3	10	3.00	9	47.1	18	45.40	23	68.6	21	2.92	49	36.1	21
11	44.30	2	45.3	11	2.91	6	45.3	21	45.17	18	66.5	25	2.43	41	34.0	24
21	44.28	1	44.2	10	2.85	3	43.2	22	44.99	13	64.0	27	2.02	30	31.6	28
31	44.29	3	43.2	9	2.82	0	41.0	22	44.86	6	61.3	29	1.72	18	28.8	31
Febr. 10	44.32	8	42.3	8	2.82	6	38.8	24	44.80	0	58.4	33	1.54	7	25.7	35
20	44.40	10	41.5	6	2.88	9	36.4	20	44.80	8	55.1	30	1.47	8	22.2	32
März 1	44.50	13	40.9	3	2.97	13	34.4	18	44.88	16	52.1	27	1.55	21	19.0	30
11	44.63	17	40.6	1	3.10	18	32.6	15	45.04	22	49.4	24	1.76	33	16.0	27
21	44.80	20	40.5	3	3.28	21	31.1	10	45.26	29	47.0	20	2.09	45	13.3	23
31	45.00	23	40.8	6	3.49	25	30.1	6	45.55	35	45.0	15	2.54	54	11.0	19
April 10	45.23	25	41.4	8	3.74	29	29.5	1	45.90	40	43.5	10	3.08	63	9.1	13
20	45.48	28	42.2	12	4.03	31	29.4	3	46.30	44	42.5	3	3.71	69	7.8	7
30	45.76	31	43.4	15	4.34	34	29.7	9	46.74	47	42.2	2	4.40	73	7.1	1
Mai 10	46.07	31	44.9	17	4.68	34	30.6	13	47.21	48	42.4	8	5.13	75	7.0	4
20	46.38	32	46.6	19	5.02	35	31.9	17	47.69	48	43.2	13	5.88	75	7.4	11
30	46.70	32	48.5	21	5.37	35	33.6	21	48.17	47	44.5	19	6.63	72	8.5	17
Juni 9	47.02	31	50.6	21	5.72	33	35.7	25	48.64	44	46.4	23	7.35	66	10.2	21
19	47.33	29	52.7	21	6.05	31	38.2	26	49.08	41	48.7	28	8.01	61	12.3	27
29	47.62	26	54.8	21	6.36	28	40.8	29	49.49	36	51.5	31	8.62	53	15.0	29
Juli 9	47.88	24	56.9	21	6.64	24	43.7	30	49.85	30	54.6	33	9.15	43	17.9	34
19	48.12	20	59.0	19	6.88	20	46.7	30	50.15	24	57.9	35	9.58	33	21.3	35
29	48.32	16	60.9	18	7.08	15	49.7	29	50.39	18	61.4	36	9.91	22	24.8	37
Aug. 8	48.48	11	62.7	16	7.23	11	52.6	29	50.57	10	65.0	36	10.13	10	28.5	38
18	48.59	8	64.3	13	7.34	5	55.5	28	50.67	3	68.6	36	10.23	1	32.3	38
28	48.67	3	65.6	12	7.39	1	58.3	25	50.70	3	72.2	35	10.22	12	36.1	37
Sept. 7	48.70	1	66.8	9	7.40	3	60.8	23	50.67	10	75.7	32	10.10	22	39.8	35
17	48.69	5	67.7	7	7.37	7	63.1	21	50.57	16	78.9	30	9.88	33	43.3	33
27	48.64	7	68.4	5	7.30	11	65.2	17	50.41	21	81.9	27	9.55	41	46.6	30
Okt. 7	48.57	10	68.9	3	7.19	13	66.9	14	50.20	25	84.6	22	9.14	49	49.6	27
17	48.47	11	69.2	0	7.06	15	68.3	10	49.95	29	86.8	19	8.65	55	52.3	22
27	48.36	12	69.2	1	6.91	16	69.3	7	49.66	32	88.7	14	8.10	61	54.5	16
Nov. 6	48.24	12	69.1	4	6.75	18	70.0	2	49.34	33	90.1	8	7.49	64	56.1	12
16	48.12	12	68.7	5	6.57	16	70.2	2	49.01	33	90.9	3	6.85	65	57.3	6
26	48.00	11	68.2	6	6.41	16	70.0	6	48.68	33	91.2	2	6.20	65	57.9	0
Dez. 6	47.89	10	67.6	8	6.25	15	69.4	10	48.35	31	91.0	9	5.55	63	57.9	6
16	47.79	8	66.8	9	6.10	13	68.4	14	48.04	29	90.1	14	4.92	59	57.3	12
26	47.71	5	65.9	10	5.97	10	67.0	16	47.75	25	88.7	18	4.33	52	56.1	17
36	47.66		64.9		5.87		65.4		47.50		86.9		3.81		54.4	
Mittl. Ort	45.66		52.2		4.66		45.7		47.95		61.8		7.10		27.2	
	834)				835)				836)				837)			

1912	ϑ Aquarii. 4ᵐ.2.				α Tucanae. 2ᵐ.8.				γ Aquarii. 3ᵐ.7.				3 Lacertae. 4ᵐ.5.			
	AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. —		AR.		Dekl. +	
	$22^h\ 12^m$		$8°\ 13'$		$22^h\ 12^m$		$60°\ 41'$		$22^h\ 17^m$		$1°\ 49'$		$22^h\ 20^m$		$51°\ 46'$	
Jan. 1	10.28	5	28.4	4	27.51	16	76.3	19	5.48	4	60.1	7	3.66	19	82.7	20
11	10.23	2	28.8	3	27.35	11	74.4	23	5.44	3	60.8	6	3.47	15	80.7	23
21	10.21	1	29.1	3	27.24	3	72.1	26	5.41	1	61.4	6	3.32	11	78.4	26
31	10.22	4	29.4	1	27.21	3	69.5	29	5.42	3	62.0	4	3.21	6	75.8	27
Febr. 10	10.26	7	29.5	1	27.24	9	66.6	30	5.45	5	62.4	3	3.15	0	73.1	28
20	10.33	11	29.4	3	27.33	17	63.6	35	5.50	10	62.7	1	3.15	7	70.3	31
März 1	[20]10.44	13	29.1	6	[20]27.50	23	60.1	31	[21]5.60	13	62.8	1	[22]3.22	13	67.2	25
11	10.57	17	28.5	7	27.73	29	57.0	32	5.73	16	62.7	4	3.35	19	64.7	23
21	10.74	19	27.8	10	28.02	35	53.8	30	5.89	19	62.3	6	3.54	25	62.4	19
31	10.93	23	26.8	11	28.37	40	50.8	29	6.08	22	61.7	9	3.79	29	60.5	14
April 10	11.16	26	25.7	14	28.77	45	47.9	27	6.30	25	60.8	12	4.08	35	59.1	9
20	11.42	28	24.3	16	29.22	50	45.2	24	6.55	27	59.6	15	4.43	38	58.2	4
30	11.70	30	22.7	18	29.72	53	42.8	21	6.82	30	58.1	16	4.81	41	57.8	3
Mai 10	12.00	32	20.9	18	30.25	55	40.7	17	7.12	32	56.5	18	5.22	43	58.1	8
20	12.32	32	19.1	19	30.80	57	39.0	13	7.44	32	54.7	19	5.65	44	58.9	13
30	12.64	33	17.2	19	31.37	57	37.7	8	7.76	32	52.8	19	6.09	43	60.2	18
Juni 9	12.97	31	15.3	19	31.94	55	36.9	4	8.08	31	50.9	20	6.52	41	62.0	23
19	13.28	30	13.4	17	32.49	53	36.5	0	8.39	30	48.9	20	6.93	38	64.3	27
29	13.58	28	11.7	16	33.02	49	36.5	5	8.69	28	46.9	19	7.31	34	67.0	29
Juli 9	13.86	25	10.1	15	33.51	43	37.0	10	8.97	24	45.0	17	7.65	30	69.9	33
19	14.11	22	8.6	13	33.94	38	38.0	13	9.21	21	43.3	16	7.95	24	73.2	34
29	14.33	17	7.3	10	34.32	29	39.3	17	9.42	18	41.7	14	8.19	18	76.6	34
Aug. 8	14.50	13	6.3	8	34.61	22	41.0	20	9.60	13	40.3	12	8.37	13	80.0	35
18	14.63	8	5.5	6	34.83	13	43.0	23	9.73	8	39.1	10	8.50	6	83.5	35
28	14.71	4	4.9	3	34.96	4	45.3	23	9.81	5	38.1	7	8.56	0	87.0	33
Sept. 7	14.75	0	4.6	1	35.00	4	47.6	24	9.86	0	37.4	5	8.56	5	90.3	31
17	14.75	3	4.5	0	34.96	12	50.0	24	9.86	3	36.9	3	8.51	11	93.4	29
27	14.72	7	4.5	2	34.84	19	52.4	22	9.83	6	36.6	1	8.40	15	96.3	26
Okt. 7	14.65	9	4.7	4	34.65	25	54.6	19	9.77	9	36.5	1	8.25	19	98.9	22
17	14.56	11	5.1	4	34.40	29	56.5	16	9.68	10	36.6	2	8.06	22	101.1	18
27	14.45	12	5.5	5	34.11	31	58.1	12	9.58	12	36.8	4	7.84	25	102.9	13
Nov. 6	14.33	12	6.0	6	33.80	34	59.3	7	9.46	12	37.2	4	7.59	26	104.2	8
16	14.21	12	6.6	6	33.46	33	60.0	2	9.34	11	37.6	6	7.33	27	105.0	3
26	14.09	10	7.2	6	33.13	31	60.2	2	9.23	11	38.2	6	7.06	26	105.3	2
Dez. 6	13.99	9	7.8	5	32.82	28	60.0	8	9.12	9	38.8	6	6.80	26	105.1	7
16	13.90	8	8.3	5	32.54	24	59.2	13	9.03	8	39.4	7	6.54	23	104.4	13
26	13.82	5	8.8	4	32.30	20	57.9	18	8.95	6	40.1	7	6.31	21	103.1	17
36	13.77		9.2		32.10		56.1		8.89		40.8		6.10		101.4	
Mittl. Ort	11.47		18.6		28.93		55.2		6.69		52.2		5.82		76.1	
	840)				841)				842)				844)			

1912	7 Lacertae. $3^m.8$. AR.	Diff.	Dekl. +	Diff.	η Aquarii. $3^m.9$. AR.	Diff.	Dekl. −	Diff.	10 Lacertae. $4^m.9$. AR.	Diff.	Dekl. +	Diff.	ζ Pegasi. $3^m.3$. AR.	Diff.	Dekl. +	Diff.
	$22^h\,27^m$		49° 49′		$22^h\,30^m$		0° 34′		$22^h\,35^m$		38° 35′		$22^h\,37^m$		10° 22′	
Jan. 1	37.78		53.8		48.95		24.3		16.98		35.5		3.15		14.4	
11	37.60	18	51.9	19	48.89	6	25.0	7	16.86	12	33.8	17	3.09	6	13.3	11
21	37.45	15	49.7	22	48.85	4	25.6	6	16.75	11	31.8	20	3.04	5	12.2	11
31	37.34	11	47.2	25	48.84	1	26.2	6	16.68	7	29.6	22	3.01	3	11.1	11
Febr. 10	37.28	6	44.5	27	48.86	2	26.7	5	16.64	4	27.3	23	3.02	1	10.0	11
20	37.28	0	41.8	27	48.90	4	27.1	4	16.65	1	25.0	23	3.05	3	9.0	10
März 1	[24] 37.34	6	38.8	30	[25] 48.99	9	27.3	2	[26] 16.71	6	22.5	25	[27] 3.12	7	8.1	9
11	37.45	11	36.3	25	49.10	11	27.2	1	16.81	10	20.4	21	3.22	10	7.6	5
21	37.63	18	34.1	22	49.24	14	26.9	3	16.96	15	18.6	18	3.36	14	7.2	4
31	37.86	23	32.3	18	49.42	18	26.3	6	17.15	19	17.2	14	3.53	17	7.2	0
April 10	38.14	28	30.9	14	49.63	21	25.4	9	17.39	24	16.2	10	3.74	21	7.6	4
20	38.47	33	30.0	9	49.87	24	24.3	11	17.67	28	15.7	5	3.97	23	8.2	6
30	38.84	37	29.7	3	50.14	27	22.9	14	17.98	31	15.7	0	4.24	27	9.2	10
Mai 10	39.23	39	29.9	2	50.43	29	21.3	16	18.32	34	16.2	5	4.53	29	10.5	13
20	39.65	42	30.7	8	50.74	31	19.5	18	18.68	36	17.1	9	4.84	31	12.1	16
30	40.07	42	32.0	13	51.06	32	17.6	19	19.05	37	18.6	15	5.16	32	14.0	19
Juni 9	40.49	42	33.7	17	51.38	32	15.6	20	19.42	37	20.4	18	5.49	33	16.0	20
19	40.89	40	36.0	23	51.70	32	13.6	20	19.78	36	22.7	23	5.81	32	18.2	22
29	41.27	38	38.6	26	52.00	30	11.5	21	20.13	35	25.2	25	6.11	30	20.5	23
Juli 9	41.61	34	41.5	29	52.29	29	9.6	19	20.44	31	28.0	28	6.40	29	22.7	22
19	41.91	30	44.7	32	52.55	26	7.7	19	20.72	28	31.0	30	6.65	25	25.0	23
29	42.16	25	48.0	33	52.77	22	6.1	16	20.95	23	34.1	31	6.88	23	27.1	21
Aug. 8	42.35	19	51.4	34	52.95	18	4.6	15	21.15	20	37.2	31	7.06	18	29.1	20
18	42.49	14	54.9	35	53.09	14	3.3	13	21.29	14	40.4	32	7.21	15	31.0	19
28	42.56	7	58.3	34	53.19	10	2.3	10	21.38	9	43.4	30	7.31	10	32.7	17
Sept. 7	42.58	2	61.6	33	53.25	6	1.5	8	21.42	4	46.3	29	7.37	6	34.2	15
17	42.55	3	64.7	31	53.26	1	0.9	6	21.42	0	49.0	27	7.39	2	35.4	12
27	42.46	9	67.5	28	53.24	2	0.5	4	21.37	5	51.4	24	7.37	2	36.4	10
Okt. 7	42.33	13	70.1	26	53.19	5	0.3	2	21.28	9	53.6	22	7.32	5	37.2	8
17	42.16	17	72.3	22	53.12	7	0.4	1	21.16	12	55.4	18	7.24	8	37.7	5
27	41.96	20	74.1	18	53.02	10	0.5	1	21.02	14	56.8	14	7.15	9	38.0	3
Nov. 6	41.74	22	75.5	14	52.91	11	0.8	3	20.86	16	57.9	11	7.04	11	38.0	0
16	41.50	24	76.3	8	52.80	11	1.2	4	20.68	18	58.5	6	6.93	11	37.9	1
26	41.25	25	76.7	4	52.68	12	1.8	6	20.50	18	58.7	2	6.81	12	37.5	4
Dez. 6	41.00	25	76.5	2	52.58	10	2.4	6	20.32	18	58.4	3	6.70	11	36.9	6
16	40.77	23	75.9	6	52.48	10	3.0	6	20.15	17	57.7	7	6.59	11	36.2	7
26	40.55	22	74.7	12	52.40	8	3.7	7	19.99	16	56.6	11	6.50	9	35.3	9
36	40.36	19	73.1	16	52.33	7	4.4	7	19.85	14	55.1	15	6.42	8	34.3	10
Mittl. Ort	39.81		47.1		50.09		17.1		18.63		31.0		4.36		18.0	
	848)				850)				852)				855)			

1912	β Gruis. $2^m.0$ AR.	Δ	Dekl. —	Δ	η Pegasi. $2^m.9$ AR.	Δ	Dekl. +	Δ
	$22^h\ 37^m$		$47°\ 20'$		$22^h\ 38^m$		$29°\ 45'$	
Jan. 1	23.99	11	62.1	12	51.07	10	40.6	15
11	23.88	9	60.9	15	50.97	9	39.1	18
21	23.79	4	59.4	19	50.88	5	37.3	19
31	23.75	0	57.5	22	50.83	2	35.4	20
Febr. 10	23.75	4	55.3	24	50.81	1	33.4	20
20	23.79	10	52.9	29	50.82	6	31.4	20
März 1	[27] 23.89	14	50.0	27	[27] 50.88	10	29.4	16
11	24.03	19	47.3	28	50.98	14	27.8	14
21	24.22	23	44.5	28	51.12	18	26.4	10
31	24.45	28	41.7	28	51.30	22	25.4	6
April 10	24.73	31	38.9	28	51.52	25	24.8	2
20	25.04	36	36.1	25	51.77	29	24.6	3
30	25.40	39	33.6	23	52.06	32	24.9	7
Mai 10	25.79	41	31.3	22	52.38	33	25.6	12
20	26.20	43	29.1	18	52.71	35	26.8	15
30	26.63	44	27.3	14	53.06	35	28.3	20
Juni 9	27.07	43	25.9	11	53.41	34	30.3	22
19	27.50	42	24.8	7	53.75	32	32.5	25
29	27.92	40	24.1	2	54.07	30	35.0	27
Juli 9	28.32	36	23.9	1	54.37	27	37.7	28
19	28.68	32	24.0	6	54.64	23	40.5	28
29	29.00	26	24.6	10	54.87	19	43.3	29
Aug. 8	29.26	20	25.6	13	55.06	14	46.2	28
18	29.46	15	26.9	15	55.20	10	49.0	26
28	29.61	8	28.4	18	55.30	5	51.6	25
Sept. 7	29.69	2	30.2	20	55.35	1	54.1	23
17	29.71	4	32.2	20	55.36	3	56.4	20
27	29.67	9	34.2	20	55.33	6	58.4	18
Okt. 7	29.58	14	36.2	18	55.27	10	60.2	14
17	29.44	17	38.0	17	55.17	12	61.6	11
27	29.27	19	39.7	13	55.05	13	62.7	8
Nov. 6	29.08	21	41.0	11	54.92	15	63.5	4
16	28.87	21	42.1	7	54.77	15	63.9	0
26	28.66	20	42.8	2	54.62	14	63.9	4
Dez. 6	28.46	19	43.0	2	54.48	14	63.5	7
16	28.27	16	42.8	6	54.34	13	62.8	10
26	28.11	14	42.2	10	54.21	11	61.8	14
36	27.97		41.2		54.10		60.4	
Mittl. Ort	24.99		42.8		52.51		38.3	
	856)				857)			

1912	λ Pegasi. $3^m.9$ AR.	Δ	Dekl. +	Δ	ε Gruis. $3^m.5$ AR.	Δ	Dekl. —	Δ
	$22^h\ 42^m$		$23°\ 5'$		$22^h\ 43^m$		$51°\ 46'$	
Jan. 1	16.13	9	68.6	14	13.68	15	68.0	14
11	16.04	7	67.2	15	13.53	11	66.6	17
21	15.97	4	65.7	16	13.42	6	64.9	21
31	15.93	2	64.1	17	13.36	1	62.8	24
Febr. 10	15.91	2	62.4	17	13.35	3	60.4	26
20	15.93	6	60.7	16	13.38	9	57.8	31
März 1	[28] 15.99	9	59.1	13	[28] 13.47	14	54.7	29
11	16.08	13	57.8	10	13.61	19	51.8	30
21	16.21	17	56.8	7	13.80	24	48.8	31
31	16.38	21	56.1	3	14.04	28	45.7	29
April 10	16.59	25	55.8	1	14.32	34	42.8	29
20	16.84	28	55.9	5	14.66	37	39.9	26
30	17.12	30	56.4	9	15.03	41	37.3	25
Mai 10	17.42	32	57.3	13	15.44	44	34.8	21
20	17.74	33	58.6	16	15.88	46	32.7	17
30	18.07	34	60.2	20	16.34	47	31.0	16
Juni 9	18.41	33	62.2	22	16.81	46	29.4	10
19	18.74	31	64.4	25	17.27	46	28.4	6
29	19.05	30	66.9	25	17.73	42	27.8	1
Juli 9	19.35	27	69.4	26	18.15	39	27.7	3
19	19.62	23	72.0	27	18.54	34	28.0	7
29	19.85	19	74.7	26	18.88	29	28.7	11
Aug. 8	20.04	14	77.3	24	19.17	23	29.8	15
18	20.18	11	79.7	24	19.40	16	31.3	18
28	20.29	6	82.1	22	19.56	9	33.1	20
Sept. 7	20.35	1	84.3	19	19.65	3	35.1	21
17	20.36	2	86.2	17	19.68	4	37.2	22
27	20.34	5	87.9	15	19.64	10	39.4	21
Okt. 7	20.29	8	89.4	11	19.54	15	41.5	20
17	20.21	10	90.5	8	19.39	19	43.5	18
27	20.11	12	91.3	6	19.20	21	45.3	15
Nov. 6	19.99	13	91.9	2	18.99	24	46.8	11
16	19.86	14	92.1	1	18.75	24	47.9	7
26	19.72	13	92.0	4	18.51	23	48.6	2
Dez. 6	19.59	12	91.6	7	18.28	22	48.8	2
16	19.47	12	90.9	10	18.06	19	48.6	7
26	19.35	9	89.9	13	17.87	17	47.9	11
36	19.26		88.6		17.70		46.8	
Mittl. Ort	17.46		68.1		14.63		47.7	
	859)				860)			

1912	ι Cephei. $3^m.5$.				λ Aquarii. $3^m.8$.			
	AR.		Dekl. +		AR.		Dekl. —	
	$22^h\ 46^m$		$65°\ 43'$		$22^h\ 48^m$		$8°\ 2'$	
Jan. 1	29.74	39	85.3	16	0.46	7	62.3	4
11	29.35	34	83.7	21	0.39	5	62.7	3
21	29.01	26	81.6	25	0.34	2	63.0	2
31	28.75	20	79.1	28	0.32	0	63.2	1
Febr. 10	28.55	11	76.3	30	0.32	3	63.3	— 2
20	28.44	1	73.3	33	0.35	7	63.1	3
März 1	28.43	— 9	70.0	30	0.42	9	62.8	6
11	28.52	19	67.0	27	0.51	13	62.2	8
21	28.71	28	64.3	25	0.64	17	61.4	10
31	28.99	37	61.8	20	0.81	20	60.4	12
April 10	29.36	44	59.8	15	1.01	23	59.2	15
20	29.80	51	58.3	11	1.24	26	57.7	17
30	30.31	55	57.2	4	1.50	29	56.0	18
Mai 10	30.86	59	56.8	— 2	1.79	30	54.2	19
20	31.45	60	57.0	7	2.09	32	52.3	20
30	32.05	60	57.7	13	2.41	33	50.3	20
Juni 9	32.65	58	59.0	18	2.74	32	48.3	20
19	33.23	54	60.8	24	3.06	32	46.3	18
29	33.77	50	63.2	27	3.38	30	44.5	18
Juli 9	34.27	43	65.9	31	3.68	27	42.7	16
19	34.70	36	69.0	33	3.95	24	41.1	13
29	35.06	29	72.3	36	4.19	20	39.8	12
Aug. 8	35.35	20	75.9	37	4.39	16	38.6	9
18	35.55	11	79.6	37	4.55	12	37.7	6
28	35.66	3	83.3	37	4.67	7	37.1	4
Sept. 7	35.69	— 5	87.0	36	4.74	4	36.7	1
17	35.64	13	90.6	35	4.78	0	36.6	0
27	35.51	20	94.1	32	4.78	4	36.6	2
Okt. 7	35.31	27	97.3	28	4.74	7	36.8	4
17	35.04	32	100.1	25	4.67	8	37.2	4
27	34.72	38	102.6	20	4.59	10	37.6	6
Nov. 6	34.34	41	104.6	16	4.49	11	38.2	6
16	33.93	43	106.2	10	4.38	11	38.8	6
26	33.50	45	107.2	4	4.27	11	39.4	6
Dez. 6	33.05	44	107.6	— 2	4.16	10	40.0	6
16	32.61	43	107.4	8	4.06	9	40.6	6
26	32.18	40	106.6	13	3.97	7	41.2	4
36	31.78		105.3		3.90		41.6	
Mittl. Ort	32.64		74.5		1.47		53.3	
	863)				864)			

1912	ρ Indi. $6^m.3$.				δ Aquarii. $3^m.2$.			
	AR.		Dekl. —		AR.		Dekl. —	
	$22^h\ 48^m$		$70°\ 32'$		$22^h\ 49^m$		$16°\ 17'$	
Jan. 1	31.94	37	61.3	20	57.93	7	32.0	2
11	31.57	29	59.3	25	57.86	5	32.2	0
21	31.28	21	56.8	28	57.81	2	32.2	3
31	31.07	11	54.0	32	57.79	0	31.9	4
Febr. 10	30.96	2	50.8	33	57.79	3	31.5	6
20	30.94	— 8	47.5	36	57.82	6	30.9	9
März 1	31.02	19	43.9	39	57.88	10	30.0	11
11	31.21	28	40.0	36	57.98	13	28.9	13
21	31.49	37	36.4	36	58.11	17	27.6	15
31	31.86	46	32.8	33	58.28	20	26.1	16
April 10	32.32	55	29.5	31	58.48	23	24.5	18
20	32.87	61	26.4	28	58.71	27	22.7	20
30	33.48	68	23.6	25	58.98	29	20.7	20
Mai 10	34.16	72	21.1	21	59.27	31	18.7	20
20	34.88	76	19.0	16	59.58	33	16.7	21
30	35.64	77	17.4	11	59.91	33	14.6	19
Juni 9	36.41	77	16.3	6	60.24	34	12.7	19
19	37.18	75	15.7	1	60.58	32	10.8	17
29	37.93	71	15.6	— 4	60.90	31	9.1	14
Juli 9	38.64	65	16.0	10	61.21	28	7.7	13
19	39.29	57	17.0	14	61.49	25	6.4	10
29	39.86	48	18.4	18	61.74	21	5.4	7
Aug. 8	40.34	37	20.2	22	61.95	17	4.7	4
18	40.71	25	22.4	24	62.12	12	4.3	2
28	40.96	13	24.8	27	62.24	8	4.1	— 1
Sept. 7	41.09	1	27.5	28	62.32	4	4.2	3
17	41.10	— 12	30.3	27	62.36	0	4.5	6
27	40.98	23	33.0	26	62.36	4	5.1	8
Okt. 7	40.75	32	35.6	23	62.32	6	5.9	6
17	40.43	41	37.9	20	62.26	9	6.5	8
27	40.02	47	39.9	16	62.17	11	7.3	8
Nov. 6	39.55	51	41.5	11	62.06	11	8.1	8
16	39.04	54	42.6	5	61.95	12	8.9	7
26	38.50	53	43.1	0	61.83	11	9.6	6
Dez. 6	37.97	50	43.1	6	61.72	11	10.2	5
16	37.47	47	42.5	13	61.61	9	10.7	4
26	37.00	41	41.2	17	61.52	8	11.1	1
36	36.59		39.5		61.44		11.2	
Mittl. Ort	33.03		38.6		58.88		20.6	
	865)				866)			

1912	α Pisc. austr. 1m.2. AR.		α Pisc. austr. Dekl. −		o Andromed. 3m.5. AR.		o Andromed. Dekl. +		β Pegasi. 2m.4. AR.		β Pegasi. Dekl. +		α Pegasi. 2m.4. AR.		α Pegasi. Dekl. +	
	22h 52m		30° 5′		22h 57m		41° 50′		22h 59m		27° 36′		23h 0m		14° 43′	
Jan. 1	46.53	8	35.1	4	50.57	16	76.4	15	29.07	11	21.4	14	21.44	8	52.2	11
11	46.45	7	34.7	7	50.41	13	74.9	19	28.96	9	20.0	15	21.36	7	51.1	12
21	46.38	3	34.0	9	50.28	11	73.0	21	28.87	6	18.5	17	21.29	5	49.9	12
31	46.35	0	33.1	12	50.17	6	70.9	22	28.81	4	16.8	18	21.24	2	48.7	13
Febr. 10	46.35	3	31.9	15	50.11	3	68.7	24	28.77	0	15.0	18	21.22	1	47.4	11
20	46.38	6	30.4	16	50.08	2	66.3	24	28.77	3	13.2	17	21.23	3	46.3	10
März 1	46.44	10	28.8	20	50.10	8	63.9	24	28.80	8	11.5	17	21.26	8	45.3	9
11	46.54	14	26.8	21	50.18	12	61.5	19	28.88	11	9.8	13	21.34	12	44.4	6
21	46.68	18	24.7	22	50.30	17	59.6	17	28.99	16	8.5	9	21.46	15	43.8	3
31	46.86	21	22.5	23	50.47	23	57.9	12	29.15	20	7.6	6	21.61	19	43.5	1
April 10	47.07	25	20.2	23	50.70	27	56.7	8	29.35	24	7.0	2	21.80	22	43.6	4
20	47.32	29	17.9	23	50.97	31	55.9	3	29.59	27	6.8	3	22.02	26	44.0	8
30	47.61	31	15.6	23	51.28	34	55.6	2	29.86	30	7.1	7	22.28	28	44.8	11
Mai 10	47.92	34	13.3	22	51.62	37	55.8	7	30.16	33	7.8	11	22.56	31	45.9	14
20	48.26	35	11.1	21	51.99	38	56.5	11	30.49	34	8.9	14	22.87	32	47.3	18
30	48.61	36	9.0	18	52.37	38	57.6	17	30.83	34	10.3	19	23.19	33	49.1	19
Juni 9	48.97	37	7.2	17	52.75	38	59.3	20	31.17	35	12.2	21	23.52	32	51.0	22
19	49.34	35	5.5	13	53.13	37	61.3	24	31.52	33	14.3	24	23.84	32	53.2	23
29	49.69	33	4.2	10	53.50	34	63.7	27	31.85	31	16.7	26	24.16	30	55.5	23
Juli 9	50.02	31	3.2	7	53.84	31	66.4	29	32.16	28	19.3	26	24.46	27	57.8	24
19	50.33	27	2.5	3	54.15	27	69.3	31	32.44	25	21.9	28	24.73	24	60.2	23
29	50.60	24	2.2	0	54.42	22	72.4	32	32.69	21	24.7	27	24.97	21	62.5	23
Aug. 8	50.84	19	2.2	3	54.64	17	75.6	32	32.90	16	27.4	27	25.18	17	64.8	21
18	51.03	14	2.5	6	54.81	13	78.8	31	33.06	12	30.1	26	25.35	12	66.9	19
28	51.17	9	3.1	9	54.94	7	81.9	30	33.18	8	32.7	24	25.47	8	68.8	17
Sept. 7	51.26	4	4.0	11	55.01	2	84.9	29	33.26	4	35.1	22	25.55	4	70.5	16
17	51.30	0	5.1	13	55.03	2	87.8	27	33.30	0	37.3	20	25.59	1	72.1	12
27	51.30	5	6.4	14	55.01	7	90.5	24	33.30	4	39.3	17	25.60	3	73.3	10
Okt. 7	51.25	8	7.8	13	54.94	10	92.9	21	33.26	7	41.0	15	25.57	6	74.3	8
17	51.17	10	9.1	13	54.84	13	95.0	17	33.19	10	42.5	11	25.51	8	75.1	6
27	51.07	13	10.4	12	54.71	15	96.7	14	33.09	12	43.6	8	25.43	10	75.7	3
Nov. 6	50.94	13	11.6	11	54.56	18	98.1	9	32.97	12	44.4	5	25.33	11	76.0	0
16	50.81	14	12.7	8	54.38	18	99.0	5	32.85	14	44.9	1	25.22	11	76.0	2
26	50.67	14	13.5	6	54.20	18	99.5	0	32.71	13	45.0	2	25.11	11	75.8	4
Dez. 6	50.53	12	14.1	3	54.02	19	99.5	4	32.58	13	44.8	6	25.00	11	75.4	7
16	50.41	12	14.4	0	53.83	18	99.1	9	32.45	13	44.2	9	24.89	11	74.7	8
26	50.29	9	14.4	3	53.65	16	98.2	13	32.32	12	43.3	12	24.78	9	73.9	10
36	50.20		14.1		53.49		96.9		32.20		42.1		24.69		72.9	
Mittl. Ort	47.41		19.8		52.16		69.9		30.37		18.8		22.57		53.5	
	867)				869)				870)				871)			

1912	ϑ Gruis. 4m.2. AR.	Δ	Dekl. —	Δ	c² Aquarii. 3m.7. AR.	Δ	Dekl. —	Δ	π Cephei. 4m.5. AR.	Δ	Dekl. +	Δ	Br. 3077. 5m.8. AR.	Δ	Dekl. +	Δ
	23h 1m		43° 59′		23h 4m		21° 38′		23h 4m		74° 54′		23h 8m		56° 40′	
Jan. 1	54.74	13	64.2	9	44.53	8	73.8	1	61.59	70	55.1	13	60.38	27	66.8	14
11	54.61	10	63.3	13	44.45	6	73.7	2	60.89	63	53.8	18	60.11	23	65.4	18
21	54.51	7	62.0	16	44.39	4	73.5	5	60.26	54	52.0	23	59.88	19	63.6	23
31	54.44	3	60.4	20	44.35	1	73.0	7	59.72	42	49.7	26	59.69	14	61.3	25
Febr. 10	54.41	1	58.4	22	44.34	1	72.3	10	59.30	28	47.1	29	59.55	9	58.8	27
20	54.42	5	56.2	24	44.35	4	71.3	12	59.02	14	44.2	32	59.46	2	56.1	28
März 1	54.47	10	53.8	29	44.39	9	70.1	15	58.88	3	41.0	34	59.44	6	53.3	30
11	54.57	14	50.9	27	44.48	12	68.6	16	58.91	19	37.6	29	59.50	13	50.3	25
21	54.71	19	48.2	29	44.60	15	67.0	18	59.10	35	34.7	28	59.63	20	47.8	23
31	54.90	23	45.3	28	44.75	19	65.2	19	59.45	49	31.9	23	59.83	27	45.5	18
April 10	55.13	28	42.5	28	44.94	23	63.3	21	59.94	61	29.6	19	60.10	33	43.7	15
20	55.41	31	39.7	27	45.17	26	61.2	22	60.55	72	27.7	15	60.43	39	42.2	9
30	55.72	35	37.0	26	45.43	29	59.0	22	61.27	80	26.2	8	60.82	43	41.3	4
Mai 10	56.07	38	34.4	23	45.72	32	56.8	22	62.07	85	25.4	3	61.25	47	40.9	2
20	56.45	40	32.1	21	46.04	33	54.6	21	62.92	89	25.1	3	61.72	48	41.1	7
30	56.85	41	30.0	18	46.37	34	52.5	20	63.81	89	25.4	8	62.20	49	41.8	13
Juni 9	57.26	42	28.2	14	46.71	34	50.5	18	64.70	87	26.2	15	62.69	49	43.1	17
19	57.68	40	26.8	10	47.05	34	48.7	17	65.57	82	27.7	20	63.18	46	44.8	22
29	58.08	39	25.8	6	47.39	32	47.0	14	66.39	75	29.7	24	63.64	44	47.0	26
Juli 9	58.47	36	25.2	2	47.71	30	45.6	11	67.14	68	32.1	28	64.08	39	49.6	30
19	58.83	32	25.0	2	48.01	27	44.5	8	67.82	57	34.9	32	64.47	34	52.6	32
29	59.15	28	25.2	6	48.28	22	43.7	5	68.39	45	38.1	35	64.81	29	55.8	34
Aug. 8	59.43	22	25.8	10	48.50	19	43.2	2	68.84	34	41.6	37	65.10	22	59.2	35
18	59.65	17	26.8	14	48.69	14	43.0	2	69.18	22	45.3	38	65.32	16	62.7	35
28	59.82	11	28.2	16	48.83	10	43.2	4	69.40	8	49.1	38	65.48	10	66.2	36
Sept. 7	59.93	5	29.8	18	48.93	5	43.6	6	69.48	5	52.9	38	65.58	3	69.8	34
17	59.98	0	31.6	19	48.98	2	44.2	8	69.43	16	56.7	37	65.61	3	73.2	33
27	59.98	6	33.5	20	49.00	3	45.0	10	69.27	29	60.4	35	65.58	8	76.5	30
Okt. 7	59.92	9	35.5	19	48.97	5	46.0	10	68.98	40	63.9	32	65.50	14	79.5	28
17	59.83	14	37.4	18	48.92	9	47.0	11	68.58	49	67.1	29	65.36	18	82.3	24
27	59.69	16	39.2	15	48.83	10	48.1	10	68.09	59	70.0	25	65.18	22	84.7	20
Nov. 6	59.53	18	40.7	13	48.73	12	49.1	9	67.50	66	72.5	20	64.96	25	86.7	15
16	59.35	19	42.0	9	48.61	12	50.0	9	66.84	71	74.5	15	64.71	27	88.2	10
26	59.16	19	42.9	5	48.49	12	50.9	6	66.13	74	76.0	9	64.44	28	89.2	5
Dez. 6	58.97	18	43.4	1	48.37	11	51.5	5	65.39	77	76.9	3	64.16	29	89.7	0
16	58.79	16	43.5	3	48.26	11	52.0	3	64.62	76	77.2	4	63.87	28	89.7	6
26	58.63	15	43.2	6	48.15	9	52.3	1	63.86	72	76.8	9	63.59	27	89.1	12
36	58.48		42.6		48.06		52.4		63.14		75.9		63.32		87.9	
Mittl. Ort	55.51		45.5		45.37		60.9		65.72		41.9		62.43		56.3	
	872)				873)				874)				875)			

1912	γ Tucanae. $3^m.9$. AR.	Δ	Dekl. —	Δ	γ Sculptoris. $4^m.4$. AR.	Δ	Dekl. —	Δ	τ Pegasi. $4^m.5$. AR.	Δ	Dekl. +	Δ
	$23^h\ 12^m$		58° 42′		$23^h\ 14^m$		33° 0′		$23^h\ 16^m$		23° 15′	
Jan. 1	17.32	23	87.4	14	3.77	11	57.7	4	15.62	11	32.4	12
11	17.09	19	86.0	18	3.66	8	57.3	7	15.51	9	31.2	13
21	16.90	14	84.2	22	3.58	6	56.6	11	15.42	7	29.9	15
31	16.76	9	82.0	26	3.52	4	55.5	13	15.35	5	28.4	15
Febr. 10	16.67	4	79.4	29	3.48	0	54.2	16	15.30	1	26.9	15
20	16.63	2	76.5	31	3.48	4	52.6	18	15.29	2	25.4	15
März 1	16.65	9	73.4	36	3.52	8	50.8	23	15.31	6	23.9	14
11	16.74	15	69.8	33	3.60	11	48.5	22	15.37	9	22.5	11
21	16.89	22	66.5	34	3.71	15	46.3	24	15.46	14	21.4	7
31	17.11	27	63.1	33	3.86	20	43.9	25	15.60	18	20.7	4
April 10	17.38	34	59.8	32	4.06	23	41.4	26	15.78	22	20.3	1
20	17.72	38	56.6	30	4.29	27	38.8	25	16.00	26	20.2	4
30	18.10	44	53.6	28	4.56	31	36.3	25	16.26	28	20.6	7
Mai 10	18.54	48	50.8	24	4.87	33	33.8	23	16.54	31	21.3	12
20	19.02	50	48.4	21	5.20	35	31.5	23	16.85	33	22.5	15
30	19.52	53	46.3	16	5.55	37	29.2	20	17.18	34	24.0	18
Juni 9	20.05	53	44.7	13	5.92	37	27.2	17	17.52	34	25.8	20
19	20.58	52	43.4	7	6.29	36	25.5	14	17.86	33	27.8	23
29	21.10	50	42.7	2	6.65	35	24.1	11	18.19	31	30.1	25
Juli 9	21.60	48	42.5	3	7.00	33	23.0	7	18.50	29	32.6	25
19	22.08	42	42.8	7	7.33	29	22.3	4	18.79	26	35.1	26
29	22.50	37	43.5	12	7.62	26	21.9	1	19.05	22	37.7	25
Aug. 8	22.87	29	44.7	16	7.88	21	22.0	4	19.27	18	40.2	25
18	23.16	23	46.3	20	8.09	17	22.4	7	19.45	14	42.7	23
28	23.39	15	48.3	22	8.26	11	23.1	10	19.59	10	45.0	22
Sept. 7	23.54	6	50.5	24	8.37	7	24.1	13	19.69	6	47.2	21
17	23.60	0	52.9	25	8.44	2	25.4	14	19.75	2	49.3	18
27	23.60	9	55.4	24	8.46	3	26.8	15	19.77	2	51.1	15
Okt. 7	23.51	15	57.8	24	8.43	7	28.3	16	19.75	5	52.6	12
17	23.36	21	60.2	21	8.36	9	29.9	15	19.70	7	53.8	10
27	23.15	24	62.3	18	8.27	12	31.4	14	19.63	10	54.8	7
Nov. 6	22.91	29	64.1	15	8.15	13	32.8	12	19.53	11	55.5	4
16	22.62	29	65.6	9	8.02	14	34.0	10	19.42	12	55.9	1
26	22.33	31	66.5	5	7.88	15	35.0	8	19.30	12	56.0	2
Dez. 6	22.02	29	67.0	1	7.73	14	35.8	4	19.18	12	55.8	5
16	21.73	28	66.9	6	7.59	13	36.2	1	19.06	12	55.3	8
26	21.45	25	66.3	11	7.46	11	36.3	3	18.94	11	54.5	10
36	21.20		65.2		7.35		36.0		18.83		53.5	
Mittl. Ort	17.95		66.0		4.48		41.8		16.77		30.4	
	877)				879)				880)			

1912	4 Cassiopejae. $5^m.5$.				κ Piscium. $5^m.1$.				70 Pegasi. $4^m.7$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. +	
	$23^h\ 20^m$		61° 47′		$23^h\ 22^m$		0° 46′		$23^h\ 24^m$		12° 16′	
	s		″		s		″		s		″	
Jan. 1	53.15	34	70.5	12	24.39	8	20.1	7	41.20	9	28.3	9
11	52.81	31	69.3	18	24.31	7	19.4	6	41.11	8	27.4	10
21	52.50	26	67.5	21	24.24	5	18.8	6	41.03	6	26.4	11
31	52.24	20	65.4	25	24.19	4	18.2	5	40.97	4	25.3	10
Febr. 10	52.04	15	62.9	27	24.15	0	17.7	4	40.93	2	24.3	10
20	51.89	6	60.2	29	24.15	2	17.3	1	40.91	— 2	23.3	8
März 1	51.83	— 2	57.3	31	24.17	6	17.2	0	40.93	5	22.5	7
11	51.85	11	54.2	27	24.23	9	17.2	3	40.98	9	21.8	4
21	51.96	19	51.5	25	24.32	13	17.5	5	41.07	13	21.4	2
31	52.15	27	49.0	21	24.45	16	18.0	8	41.20	16	21.2	— 2
April 10	52.42	35	46.9	17	24.61	20	18.8	11	41.36	21	21.4	5
20	52.77	41	45.2	12	24.81	25	19.9	13	41.57	24	21.9	8
30	53.18	46	44.0	7	25.06	26	21.2	16	41.81	27	22.7	12
Mai 10	53.64	51	43.3	1	25.32	30	22.8	18	42.08	29	23.9	14
20	54.15	54	43.2	— 4	25.62	30	24.6	19	42.37	31	25.3	17
30	54.69	54	43.6	10	25.92	32	26.5	20	42.68	33	27.0	19
Juni 9	55.23	54	44.6	15	26.24	33	28.5	21	43.01	33	28.9	21
19	55.77	51	46.1	20	26.57	32	30.6	21	43.34	32	31.0	22
29	56.28	49	48.1	25	26.89	31	32.7	21	43.66	31	33.2	23
Juli 9	56.77	45	50.6	28	27.20	28	34.8	19	43.97	29	35.5	22
19	57.22	39	53.4	32	27.48	26	36.7	19	44.26	25	37.7	23
29	57.61	32	56.6	33	27.74	22	38.6	16	44.51	23	40.0	21
Aug. 8	57.93	27	59.9	35	27.96	19	40.2	14	44.74	19	42.1	20
18	58.20	19	63.4	36	28.15	15	41.6	12	44.93	14	44.1	18
28	58.39	11	67.0	37	28.30	11	42.8	9	45.07	11	45.9	16
Sept. 7	58.50	5	70.7	36	28.41	6	43.7	7	45.18	7	47.5	14
17	58.55	— 2	74.3	34	28.47	3	44.4	5	45.25	3	48.9	12
27	58.53	9	77.7	33	28.50	0	44.9	3	45.28	0	50.1	9
Okt. 7	58.44	15	81.0	30	28.50	3	45.2	0	45.28	3	51.0	7
17	58.29	21	84.0	26	28.47	6	45.2	1	45.25	6	51.7	5
27	58.08	25	86.6	23	28.41	8	45.1	2	45.19	8	52.2	2
Nov. 6	57.83	30	88.9	18	28.33	9	44.9	4	45.11	9	52.4	0
16	57.53	32	90.7	13	28.24	10	44.5	5	45.02	10	52.4	2
26	57.21	34	92.0	8	28.14	10	44.0	6	44.92	11	52.2	4
Dez. 6	56.87	36	92.8	2	28.04	10	43.4	6	44.81	11	51.8	5
16	56.51	35	93.0	— 4	27.94	10	42.8	7	44.70	10	51.3	7
26	56.16	35	92.6	9	27.84	8	42.1	7	44.60	9	50.6	9
36	55.81		91.7		27.76		41.4		44.51		49.7	
Mittl. Ort	55.39		58.3		25.27		25.3		42.18		29.6	
		882)				884)				885)		

1912	ι Andromedae. $4^m.1$. AR.		Dekl. +		ι Piscium. $4^m.1$. AR.		Dekl. +		γ Cephei. $3^m.3$. AR.		Dekl. +	
	$23^h 33^m$		42° 46′		$23^h 35^m$		5° 8′		$23^h 35^m$		77° 8′	
Jan. 1	47.59	17	59.2	11	24.55	9	53.7	8	39.42	87	43.4	9
11	47.42	16	58.1	16	24.46	8	52.9	8	38.55	81	42.5	13
21	47.26	14	56.5	18	24.38	6	52.1	7	37.74	72	41.2	19
31	47.12	11	54.7	21	24.32	4	51.4	7	37.02	60	39.3	24
Febr. 10	47.01	7	52.6	22	24.28	2	50.7	6	36.42	46	36.9	27
20	46.94	3	50.4	22	24.26	0	50.1	4	35.96	29	34.2	29
März 1	46.91	3	48.2	23	24.26	4	49.7	3	35.67	11	31.3	31
11	46.94	8	45.9	22	24.30	9	49.4	1	35.56	9	28.2	33
21	47.02	13	43.7	18	24.39	11	49.5	2	35.65	27	24.9	28
31	47.15	19	41.9	14	24.50	16	49.7	6	35.92	44	22.1	26
April 10	47.34	24	40.5	11	24.66	19	50.3	8	36.36	61	19.5	22
20	47.58	28	39.4	6	24.85	23	51.1	11	36.97	75	17.3	18
30	47.86	33	38.8	1	25.08	26	52.2	14	37.72	87	15.5	13
Mai 10	48.19	36	38.7	4	25.34	29	53.6	16	38.59	95	14.2	7
20	48.55	38	39.1	8	25.63	30	55.2	18	39.54	101	13.5	1
30	48.93	39	39.9	13	25.93	32	57.0	20	40.55	103	13.4	4
Juni 9	49.32	39	41.2	17	26.25	33	59.0	21	41.58	104	13.8	10
19	49.71	39	42.9	22	26.58	32	61.1	21	42.62	99	14.8	16
29	50.10	37	45.1	24	26.90	31	63.2	21	43.61	95	16.4	21
Juli 9	50.47	34	47.5	27	27.21	29	65.3	21	44.56	86	18.5	25
19	50.81	31	50.2	29	27.50	27	67.4	20	45.42	76	21.0	29
29	51.12	27	53.1	31	27.77	23	69.4	18	46.18	64	23.9	32
Aug. 8	51.39	22	56.2	31	28.00	20	71.2	16	46.82	52	27.1	35
18	51.61	17	59.3	31	28.20	16	72.8	15	47.34	38	30.6	37
28	51.78	12	62.4	30	28.36	12	74.3	12	47.72	24	34.3	38
Sept. 7	51.90	8	65.4	30	28.48	9	75.5	9	47.96	8	38.1	39
17	51.98	3	68.4	28	28.57	4	76.4	8	48.04	5	42.0	38
27	52.01	2	71.2	25	28.61	1	77.2	5	47.99	20	45.8	37
Okt. 7	51.99	5	73.7	23	28.62	3	77.7	3	47.79	34	49.5	34
17	51.94	9	76.0	20	28.59	4	78.0	1	47.45	47	52.9	32
27	51.85	12	78.0	17	28.55	7	78.1	1	46.98	58	56.1	29
Nov. 6	51.73	15	79.7	12	28.48	8	78.0	2	46.40	68	59.0	24
16	51.58	16	80.9	9	28.40	9	77.8	4	45.72	77	61.4	19
26	51.42	17	81.8	4	28.31	10	77.4	5	44.95	84	63.3	14
Dez. 6	51.25	18	82.2	1	28.21	10	76.9	6	44.11	88	64.7	8
16	51.07	19	82.1	5	28.11	10	76.3	7	43.23	90	65.5	2
26	50.88	18	81.6	9	28.01	10	75.6	8	42.33	88	65.7	5
36	50.70		80.7		27.91		74.8		41.45		65.2	
Mittl. Ort	48.99		50.7		25.40		57.0		43.60		28.2	
	891)				892)				893)			

1912	ω² Aquarii. $4^m.5$.				41 H. Cephei. $5^m.2$.				Lac. δ Sculptoris. $4^m.4$.			
	AR.		Dekl. —		AR.		Dekl. +		AR.		Dekl. —	
	$23^h\ 38^m$		$15°\ 1'$		$23^h\ 43^m$		$67°\ 18'$		$23^h\ 44^m$		$28°\ 36'$	
Jan. 1	$8^s.92$	9	$63''.7$	2	$39^s.26$	45	$78''.5$	8	$20^s.11$	11	$75''.4$	1
11	8.83	8	63.9	1	38.81	43	77.7	14	20.00	11	75.3	4
21	8.75	7	64.0	1	38.38	38	76.3	19	19.89	8	74.9	7
31	8.68	4	63.9	3	38.00	32	74.4	24	19.81	6	74.2	10
Febr. 10	8.64	2	63.6	6	37.68	24	72.0	26	19.75	3	73.2	13
20	8.62	1	63.0	8	37.44	16	69.4	28	19.72	0	71.9	16
März 1	8.63	4	62.2	10	37.28	5	66.6	29	19.72	4	70.3	18
11	8.67	8	61.2	14	37.23	6	63.7	32	19.76	8	68.5	22
21	[14] 8.75	12	59.8	14	[16] 37.29	17	60.5	27	[16] 19.84	11	66.3	22
31	8.87	15	58.4	17	37.46	27	57.8	24	19.95	15	64.1	24
April 10	9.02	19	56.7	19	37.73	37	55.4	20	20.10	19	61.7	25
20	9.21	23	54.8	20	38.10	46	53.4	16	20.29	24	59.2	26
30	9.44	26	52.8	21	38.56	53	51.8	11	20.53	27	56.6	25
Mai 10	9.70	29	50.7	22	39.09	58	50.7	6	20.80	30	54.1	25
20	9.99	31	48.5	22	39.67	62	50.1	1	21.10	33	51.6	24
30	10.30	33	46.3	21	40.29	65	50.2	6	21.43	34	49.2	22
Juni 9	10.63	33	44.2	21	40.94	65	50.8	11	21.77	36	47.0	20
19	10.96	33	42.1	19	41.59	63	51.9	17	22.13	35	45.0	17
29	11.29	32	40.2	17	42.22	61	53.6	21	22.48	35	43.3	15
Juli 9	11.61	31	38.5	15	42.83	56	55.7	26	22.83	33	41.8	11
19	11.92	28	37.0	13	43.39	50	58.3	29	23.16	30	40.7	7
29	12.20	24	35.7	9	43.89	43	61.2	32	23.46	27	40.0	4
Aug. 8	12.44	21	34.8	7	44.32	36	64.4	34	23.73	23	39.6	0
18	12.65	17	34.1	3	44.68	28	67.8	36	23.96	19	39.6	4
28	12.82	13	33.8	0	44.96	19	71.4	37	24.15	14	40.0	7
Sept. 7	12.95	9	33.8	2	45.15	10	75.1	38	24.29	10	40.7	11
17	13.04	4	34.0	5	45.25	2	78.9	36	24.39	6	41.8	12
27	13.08	1	34.5	6	45.27	6	82.5	35	24.45	1	43.0	14
Okt. 7	13.09	2	35.1	8	45.21	14	86.0	33	24.46	3	44.4	14
17	13.07	5	35.9	9	45.07	22	89.3	30	24.43	6	45.8	15
27	13.02	7	36.8	9	44.85	28	92.3	26	24.37	9	47.3	15
Nov. 6	12.95	9	37.7	9	44.57	33	94.9	22	24.28	10	48.8	13
16	12.86	10	38.6	9	44.24	39	97.1	18	24.18	12	50.1	12
26	12.76	11	39.5	8	43.85	43	98.9	12	24.06	13	51.3	9
Dez. 6	12.65	10	40.3	7	43.42	44	100.1	6	23.93	13	52.2	7
16	12.55	11	41.0	5	42.98	46	100.7	1	23.80	13	52.9	3
26	12.44	10	41.5	4	42.52	46	100.8	5	23.67	12	53.2	1
36	12.34		41.9		42.06		100.3		23.55		53.3	
Mittl. Ort	9.59		53.6		41.69		64.2		20.63		61.2	
	894)				895)				896)			

1912	φ Pegasi. $5^m.4$.				ω Piscium. $3^m.9$.				ε Tucanae. $4^m.5$.			
	AR.		Dekl. +		AR.		Dekl. +		AR.		Dekl. —	
	$23^h 47^m$		18° 37′		$23^h 54^m$		6° 22′		$23^h 55^m$		66° 3′	
Jan. 1	59.63	11	55.1	9	46.74	10	31.7	7	21.08	38	82.2	11
11	59.52	10	54.2	11	46.64	9	31.0	8	20.70	35	81.1	17
21	59.42	8	53.1	11	46.55	8	30.2	7	20.35	30	79.4	21
31	59.34	7	52.0	13	46.47	5	29.5	7	20.05	25	77.3	26
Febr. 10	59.27	4	50.7	12	46.42	4	28.8	6	19.80	17	74.7	30
20	59.23	1	49.5	11	46.38	2	28.2	5	19.63	11	71.7	32
März 1	59.22	2	48.4	10	46.36	3	27.7	3	19.52	3	68.5	35
11	59.24	7	47.4	9	46.39	6	27.4	0	19.49	5	65.0	40
21	[17] 59.31	11	46.5	5	[19] 46.45	9	27.4	2	[19] 19.54	14	61.0	36
31	59.42	14	46.0	2	46.54	14	27.6	5	19.68	22	57.4	37
April 10	59.56	19	45.8	1	46.68	18	28.1	8	19.90	30	53.7	36
20	59.75	22	45.9	4	46.86	21	28.9	10	20.20	38	50.1	34
30	59.97	27	46.3	8	47.07	25	29.9	13	20.58	45	46.7	32
Mai 10	60.24	29	47.1	12	47.32	28	31.2	15	21.03	51	43.5	28
20	60.53	31	48.3	15	47.60	29	32.7	18	21.54	56	40.7	25
30	60.84	33	49.8	17	47.89	32	34.5	19	22.10	61	38.2	21
Juni 9	61.17	33	51.5	19	48.21	33	36.4	21	22.71	62	36.1	16
19	61.50	34	53.4	22	48.54	32	38.5	21	23.33	64	34.5	10
29	61.84	32	55.6	23	48.86	32	40.6	21	23.97	62	33.5	6
Juli 9	62.16	30	57.9	23	49.18	30	42.7	22	24.59	61	32.9	0
19	62.46	28	60.2	24	49.48	27	44.9	20	25.20	56	32.9	6
29	62.74	24	62.6	23	49.75	25	46.9	19	25.76	51	33.5	11
Aug. 8	62.98	21	64.9	22	50.00	21	48.8	17	26.27	43	34.6	15
18	63.19	17	67.1	22	50.21	18	50.5	15	26.70	36	36.1	20
28	63.36	14	69.3	19	50.39	14	52.0	12	27.06	26	38.1	23
Sept. 7	63.50	9	71.2	18	50.53	10	53.2	11	27.32	16	40.4	26
17	63.59	5	73.0	15	50.63	6	54.3	8	27.48	6	43.0	27
27	63.64	2	74.5	14	50.69	3	55.1	6	27.54	3	45.7	28
Okt. 7	63.66	1	75.9	10	50.72	0	55.7	4	27.51	13	48.5	28
17	63.65	4	76.9	9	50.72	3	56.1	2	27.38	21	51.3	25
27	63.61	6	77.8	5	50.69	5	56.3	0	27.17	28	53.8	23
Nov. 6	63.55	8	78.3	4	50.64	7	56.3	2	26.89	35	56.1	19
16	63.47	10	78.7	1	50.57	9	56.1	3	26.54	38	58.0	14
26	63.37	10	78.8	2	50.48	9	55.8	4	26.16	41	59.4	9
Dez. 6	63.27	11	78.6	4	50.39	10	55.4	6	25.75	43	60.3	4
16	63.16	11	78.2	6	50.29	10	54.8	6	25.32	42	60.7	2
26	63.05	12	77.6	8	50.19	10	54.2	7	24.90	40	60.5	8
36	62.93		76.8		50.09		53.5		24.50		59.7	
Mittl. Ort	60.55		53.3		47.49		33.9		20.98		60.2	
	898)				902)				903)			

Allgemeine Präzession = 50″.259

$A = t - 0.02526 \sin 2 \odot$
$+ 0.00293 \sin(\odot + 81^\circ 48')$
$- 0.34213 \sin \Omega$
$+ 0.00409 \sin 2\Omega$
$[A' = - 0.00405 \sin 2 ☾$
$+ 0.00134 \sin(☾ - 122^\circ 59')]$

$B = - 0''.5519 \cos 2 \odot$
$- 0.0092 \cos(\odot + 281^\circ 25')$
$- 9.2100 \cos \Omega$
$+ 0.0895 \cos 2\Omega$
$[B' = - 0.0884 \cos 2 ☾]$

$C = - 20''.47 \cos \odot \cos \varepsilon$
$D = - 20''.47 \sin \odot$

$E = - 0''.0031 \sin 2 \odot$
$- 0.0419 \sin \Omega$
$+ 0.0014 \sin 2\Omega$

$a = 46''.0883 + 20''.0458 \sin \alpha \operatorname{tg} \delta$
$b = \cos \alpha \operatorname{tg} \delta$
$c = \cos \alpha \sec \delta$
$d = \sin \alpha \sec \delta$

$a' = 20''.0458 \cos \alpha$
$b' = - \sin \alpha$
$c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$
$d' = \cos \alpha \sin \delta$

$\odot$ = wahre Länge der Sonne
Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik
☾ = mittlere Länge des Mondes
m, m' = jährliche Eigenbewegung in AR. und Dekl.
t = Zeit seit Anfang des Jahres, in Teilen des Jahres ausgedrückt.

Scheinb. AR. = AR. 1912.0 $+ tm + Aa + Bb + Cc + Dd + E + [A'a + B'b]$
Scheinb. Dekl. = Dekl. 1912.0 $+ tm' + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$

Setzt man $f = 46''.0883\, A + E$
$g \cos G = 20''.0458\, A$
$g \sin G = B$
$[f' = 46''.0883\, A']$
$[g' \cos G' = 20''.0458\, A']$
$[g' \sin G' = B']$,

$h \sin H = C$
$h \cos H = D$
$i = C \operatorname{tg} \varepsilon$

so wird

Scheinb. AR. = AR. 1912.0 $+ tm + f + g \sin(G + \alpha) \operatorname{tg} \delta + h \sin(H + \alpha) \sec \delta + [f' + g' \sin(G' + \alpha) \operatorname{tg} \delta]$

Scheinb. Dekl. = Dekl. 1912.0 $+ tm' + g \cos(G + \alpha) + h \cos(H + \alpha) \sin \delta + i \cos \delta + [g' \cos(G' + \alpha)]$

Korrektion für die tägliche Aberration, wenn Θ die Sternzeit, φ die Polhöhe ist:

$$\Delta \alpha = + 0^s.0213 \cos \varphi \cos(\Theta - \alpha) \sec \delta$$
$$\Delta \delta = + 0''.320 \cos \varphi \sin(\Theta - \alpha) \sin \delta.$$

Konstanten für die Sternzeitepochen

18^h 40^m des Normalmeridians oder 0^h 50^m Berlin,
ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

Datum in Mittl. Zeit			t	log. A	log. B	log. C	log. D	E
1912	Jan.	1.26	0.000	9.1574$_n$	0.8820$_n$	0.5115$_n$	1.3045	—0.02
		11.23	0.027	9.0228$_n$	0.8897$_n$	0.8103$_n$	1.2838	0.02
		21.20	0.055	8.8397$_n$	0.9000$_n$	0.9763$_n$	1.2474	0.02
		31.18	0.082	8.5519$_n$	0.9119$_n$	1.0855$_n$	1.1927	0.01
	Febr.	10.15	0.109	7.7202$_n$	0.9240$_n$	1.1612$_n$	1.1144	0.01
		20.12	0.137	8.3432	0.9350$_n$	1.2138$_n$	1.0022	—0.01
	März	1.09	0.164	8.6687	0.9440$_n$	1.2483$_n$	0.8320	0.01
		11.07	0.191	8.8407	0.9501$_n$	1.2678$_n$	0.5242	0.01
		21.04	0.218	8.9588	0.9532$_n$	1.2737$_n$	9.2714$_n$	0.01
		31.01	0.246	9.0517	0.9531$_n$	1.2665$_n$	0.5673$_n$	0.02
	April	9.98	0.273	9.1315	0.9500$_n$	1.2461$_n$	0.8494$_n$	—0.02
		19.96	0.300	9.2038	0.9445$_n$	1.2114$_n$	1.0096$_n$	0.02
		29.93	0.328	9.2716	0.9373$_n$	1.1601$_n$	1.1161$_n$	0.02
	Mai	9.90	0.355	9.3357	0.9294$_n$	1.0878$_n$	1.1910$_n$	0.02
		19.88	0.382	9.3964	0.9219$_n$	0.9864$_n$	1.2439$_n$	0.02
		29.85	0.410	9.4534	0.9157$_n$	0.8377$_n$	1.2798$_n$	—0.01
	Juni	8.82	0.437	9.5063	0.9118$_n$	0.5898$_n$	1.3016$_n$	0.01
		18.79	0.464	9.5548	0.9107$_n$	9.9004$_n$	1.3107$_n$	0.01
		28.77	0.491	9.5986	0.9128$_n$	0.3648	1.3078$_n$	0.01
	Juli	8.74	0.519	9.6377	0.9179$_n$	0.7294	1.2927$_n$	0.01
		18.71	0.546	9.6722	0.9255$_n$	0.9171	1.2644$_n$	—0.01
		28.68	0.573	9.7024	0.9349$_n$	1.0390	1.2211$_n$	0.01
	Aug.	7.66	0.601	9.7285	0.9449$_n$	1.1245	1.1593$_n$	0.01
		17.63	0.628	9.7510	0.9547$_n$	1.1857	1.0723$_n$	0.01
		27.60	0.655	9.7705	0.9633$_n$	1.2287	0.9471$_n$	0.01
	Sept.	6.58	0.683	9.7876	0.9700$_n$	1.2566	0.7507$_n$	—0.01
		16.55	0.710	9.8031	0.9740$_n$	1.2711	0.3488$_n$	0.01
		26.52	0.737	9.8176	0.9752$_n$	1.2729	0.0967	0.01
	Okt.	6.49	0.765	9.8320	0.9735$_n$	1.2618	0.6734	0.01
		16.47	0.792	9.8467	0.9690$_n$	1.2371	0.9063	0.01
		26.44	0.819	9.8623	0.9622$_n$	1.1967	1.0486	—0.01
	Nov.	5.41	0.846	9.8790	0.9540$_n$	1.1371	1.1457	0.01
		15.38	0.874	9.8968	0.9454$_n$	1.0518	1.2142	0.01
		25.36	0.901	9.9154	0.9375$_n$	0.9277	1.2618	0.01
	Dez.	5.33	0.928	9.9346	0.9314$_n$	0.7317	1.2924	0.01
		15.30	0.956	9.9539	0.9281$_n$	0.3306	1.3083	—0.01
		25.27	0.983	9.9727	0.9282$_n$	0.0729$_n$	1.3103	0.01
		35.25	1.010	9.9905	0.9318$_n$	0.6505$_n$	1.2984	0.00

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit		f	log. g	G	log. h	H	log. i	☾
Jan.	1	—6.60	0.9108	249° 26′	1.3100	350° 37′	0.1594_n	191
	2	6.41	0.9099	249 59	1.3098	349 41	0.2002_n	228
	3	6.23	0.9091	250 31	1.3096	348 44	0.2375_n	264
	4	6.05	0.9083	251 4	1.3093	347 48	0.2716_n	301
	5	5.88	0.9076	251 37	1.3090	346 51	0.3032_n	337
	6	—5.70	0.9070	252 10	1.3087	345 55	0.3324_n	374
	7	5.52	0.9065	252 43	1.3084	344 58	0.3597_n	410
	8	5.35	0.9060	253 16	1.3080	344 1	0.3853_n	447
	9	5.17	0.9057	253 49	1.3077	343 4	0.4093_n	484
	10	5.00	0.9054	254 22	1.3073	342 7	0.4319_n	520
	11	—4.83	0.9052	254 55	1.3069	341 10	0.4532_n	557
	12	4.65	0.9050	255 28	1.3065	340 13	0.4734_n	593
	13	4.48	0.9049	256 1	1.3060	339 15	0.4926_n	630
	14	4.31	0.9049	256 33	1.3056	338 18	0.5109_n	667
	15	4.14	0.9050	257 6	1.3051	337 20	0.5282_n	703
	16	—3.97	0.9051	257 38	1.3046	336 22	0.5448_n	740
	17	3.81	0.9053	258 10	1.3041	335 25	0.5607_n	776
	18	3.64	0.9055	258 42	1.3036	334 27	0.5758_n	813
	19	3.48	0.9058	259 14	1.3031	333 29	0.5903_n	850
	20	3.31	0.9062	259 45	1.3026	332 31	0.6042_n	886
	21	—3.15	0.9066	260 16	1.3020	331 32	0.6175_n	923
	22	2.99	0.9071	260 47	1.3015	330 34	0.6303_n	959
	23	2.83	0.9077	261 18	1.3009	329 35	0.6425_n	996
	24	2.67	0.9083	261 48	1.3003	328 36	0.6544_n	033
	25	2.51	0.9090	262 18	1.2997	327 37	0.6657_n	069
	26	—2.36	0.9097	262 47	1.2991	326 38	0.6767_n	106
	27	2.21	0.9105	263 16	1.2985	325 39	0.6872_n	142
	28	2.06	0.9113	263 45	1.2979	324 40	0.6974_n	179
	29	1.91	0.9121	264 14	1.2972	323 40	0.7072_n	216
	30	1.76	0.9130	264 42	1.2966	322 41	0.7166_n	252
	31	—1.61	0.9139	265 10	1.2960	321 41	0.7257_n	289
Febr.	1	1.46	0.9148	265 37	1.2953	320 41	0.7344_n	325
	2	1.31	0.9158	266 4	1.2947	319 41	0.7429_n	362
	3	1.17	0.9168	266 31	1.2940	318 40	0.7511_n	399
	4	1.03	0.9178	266 57	1.2933	317 40	0.7589_n	435
	5	—0.89	0.9189	267 23	1.2927	316 39	0.7665_n	472
	6	0.75	0.9200	267 48	1.2920	315 38	0.7739_n	508
	7	0.61	0.9211	268 13	1.2914	314 37	0.7809_n	545

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Febr. 7	−0.61″	0.9211	268° 13′	1.2914	314° 37′	0.7809_n	545
8	0.47	0.9222	268 38	1.2907	313 36	0.7878_n	582
9	0.34	0.9233	269 2	1.2900	312 35	0.7944_n	618
10	0.21	0.9244	269 26	1.2894	311 33	0.8007_n	655
11	−0.08	0.9256	269 49	1.2887	310 32	0.8068_n	691
12	+0.05	0.9267	270 12	1.2881	309 30	0.8127_n	728
13	0.18	0.9279	270 35	1.2874	308 28	0.8184_n	765
14	0.31	0.9290	270 57	1.2868	307 26	0.8239_n	801
15	0.44	0.9302	271 19	1.2861	306 24	0.8292_n	838
16	0.56	0.9313	271 41	1.2855	305 21	0.8343_n	874
17	+0.69	0.9325	272 2	1.2849	304 18	0.8392_n	911
18	0.81	0.9337	272 23	1.2843	303 15	0.8439_n	948
19	0.93	0.9348	272 44	1.2837	302 12	0.8484_n	984
20	1.05	0.9360	273 4	1.2831	301 9	0.8527_n	021
21	1.17	0.9371	273 24	1.2825	300 6	0.8568_n	057
22	+1.28	0.9382	273 44	1.2820	299 3	0.8608_n	094
23	1.40	0.9393	274 3	1.2814	298 0	0.8646_n	131
24	1.51	0.9404	274 22	1.2809	296 56	0.8682_n	167
25	1.63	0.9415	274 41	1.2803	295 53	0.8717_n	204
26	1.74	0.9426	275 0	1.2798	294 49	0.8750_n	240
27	+1.85	0.9437	275 18	1.2793	293 45	0.8782_n	277
28	1.96	0.9448	275 36	1.2789	292 41	0.8812_n	314
29	2.07	0.9458	275 54	1.2784	291 37	0.8840_n	350
März 1	2.18	0.9468	276 12	1.2780	290 33	0.8867_n	387
2	2.29	0.9478	276 29	1.2775	289 28	0.8892_n	423
3	+2.40	0.9488	276 46	1.2771	288 24	0.8916_n	460
4	2.50	0.9497	277 3	1.2767	287 19	0.8939_n	497
5	2.60	0.9506	277 20	1.2764	286 15	0.8960_n	533
6	2.71	0.9515	277 37	1.2761	285 10	0.8980_n	570
7	2.81	0.9524	277 54	1.2757	284 5	0.8998_n	606
8	+2.92	0.9532	278 10	1.2754	283 0	0.9014_n	643
9	3.02	0.9541	278 27	1.2752	281 56	0.9029_n	680
10	3.12	0.9549	278 43	1.2749	280 51	0.9043_n	716
11	3.23	0.9557	278 59	1.2747	279 46	0.9056_n	753
12	3.33	0.9565	279 15	1.2745	278 41	0.9067_n	789
13	+3.43	0.9572	279 31	1.2743	277 36	0.9077_n	826
14	3.53	0.9579	279 47	1.2741	276 31	0.9086_n	863
15	3.63	0.9586	280 3	1.2740	275 26	0.9093_n	899

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
März 15	+3.63	0.9586	280° 3′	1.2740	275° 26′	0.9093_n	899
16	3.73	0.9592	280 19	1.2739	274 21	0.9099_n	936
17	3.83	0.9599	280 35	1.2738	273 16	0.9104_n	972
18	3.93	0.9605	280 50	1.2737	272 11	0.9107_n	009
19	4.03	0.9611	281 6	1.2737	271 6	0.9109_n	046
20	+4.12	0.9617	281 21	1.2737	270 1	0.9110_n	082
21	4.22	0.9623	281 36	1.2737	268 56	0.9109_n	119
22	4.32	0.9628	281 52	1.2737	267 51	0.9107_n	155
23	4.42	0.9633	282 7	1.2738	266 46	0.9104_n	192
24	4.52	0.9638	282 23	1.2739	265 42	0.9099_n	229
25	+4.62	0.9643	282 39	1.2740	264 37	0.9093_n	265
26	4.72	0.9647	282 55	1.2741	263 32	0.9086_n	302
27	4.82	0.9651	283 11	1.2743	262 28	0.9078_n	338
28	4.92	0.9655	283 27	1.2745	261 23	0.9068_n	375
29	5.02	0.9659	283 43	1.2747	260 19	0.9057_n	412
30	+5.13	0.9663	283 59	1.2749	259 15	0.9045_n	448
31	5.23	0.9666	284 15	1.2751	258 11	0.9031_n	485
April 1	5.33	0.9670	284 32	1.2754	257 7	0.9016_n	521
2	5.43	0.9673	284 48	1.2757	256 3	0.9000_n	558
3	5.54	0.9676	285 5	1.2760	254 59	0.8982_n	595
4	+5.64	0.9679	285 22	1.2763	253 55	0.8963_n	631
5	5.75	0.9682	285 39	1.2767	252 52	0.8943_n	668
6	5.85	0.9685	285 56	1.2771	251 48	0.8921_n	704
7	5.96	0.9687	286 13	1.2775	250 45	0.8897_n	741
8	6.06	0.9690	286 30	1.2779	249 42	0.8873_n	778
9	+6.17	0.9692	286 48	1.2783	248 39	0.8847_n	814
10	6.28	0.9694	287 5	1.2787	247 36	0.8820_n	851
11	6.39	0.9696	287 23	1.2792	246 34	0.8791_n	887
12	6.50	0.9699	287 41	1.2797	245 31	0.8760_n	924
13	6.61	0.9701	287 59	1.2802	244 29	0.8729_n	961
14	+6.72	0.9703	288 17	1.2807	243 27	0.8696_n	997
15	6.84	0.9705	288 36	1.2812	242 25	0.8661_n	034
16	6.95	0.9707	288 55	1.2817	241 23	0.8625_n	071
17	7.07	0.9709	289 14	1.2823	240 22	0.8587_n	107
18	7.18	0.9711	289 33	1.2828	239 21	0.8547_n	144
19	+7.30	0.9714	289 52	1.2834	238 20	0.8506_n	180
20	7.42	0.9716	290 11	1.2840	237 19	0.8463_n	217
21	7.54	0.9719	290 31	1.2845	236 18	0.8419_n	254

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
April 21	+ 7.54	0.9719	290° 31′	1.2845	236° 18′	0.8419_n	254
22	7.66	0.9722	290 51	1.2851	235 17	0.8372_n	290
23	7.78	0.9724	291 11	1.2857	234 17	0.8325_n	327
24	7.91	0.9727	291 31	1.2863	233 17	0.8276_n	363
25	8.03	0.9730	291 52	1.2870	232 17	0.8224_n	400
26	+ 8.15	0.9733	292 12	1.2876	231 17	0.8171_n	437
27	8.28	0.9737	292 33	1.2882	230 17	0.8116_n	473
28	8.41	0.9741	292 54	1.2888	229 18	0.8059_n	510
29	8.54	0.9745	293 15	1.2895	228 19	0.8000_n	546
30	8.67	0.9749	293 36	1.2901	227 20	0.7938_n	583
Mai 1	+ 8.81	0.9753	293 58	1.2907	226 21	0.7875_n	620
2	8.94	0.9757	294 20	1.2914	225 23	0.7810_n	656
3	9.08	0.9762	294 42	1.2920	224 25	0.7742_n	693
4	9.21	0.9767	295 4	1.2926	223 26	0.7672_n	729
5	9.35	0.9772	295 26	1.2932	222 28	0.7600_n	766
6	+ 9.49	0.9777	295 48	1.2939	221 31	0.7525_n	803
7	9.63	0.9783	296 10	1.2945	220 33	0.7448_n	839
8	9.77	0.9789	296 32	1.2951	219 36	0.7368_n	876
9	9.91	0.9796	296 55	1.2957	218 39	0.7285_n	912
10	10.05	0.9803	297 17	1.2964	217 42	0.7200_n	949
11	+10.20	0.9810	297 40	1.2970	216 45	0.7112_n	986
12	10.35	0.9817	298 3	1.2976	215 48	0.7020_n	022
13	10.50	0.9825	298 26	1.2982	214 52	0.6926_n	059
14	10.65	0.9833	298 49	1.2988	213 55	0.6828_n	095
15	10.80	0.9842	299 12	1.2993	212 59	0.6726_n	132
16	+10.95	0.9851	299 35	1.2999	212 3	0.6621_n	169
17	11.10	0.9860	299 58	1.3004	211 8	0.6512_n	205
18	11.25	0.9870	300 21	1.3010	210 12	0.6399_n	242
19	11.41	0.9880	300 44	1.3015	209 17	0.6282_n	278
20	11.56	0.9890	301 7	1.3021	208 21	0.6161_n	315
21	+11.72	0.9901	301 30	1.3026	207 26	0.6034_n	352
22	11.88	0.9912	301 53	1.3031	206 31	0.5903_n	388
23	12.04	0.9924	302 16	1.3036	205 37	0.5766_n	425
24	12.20	0.9936	302 39	1.3041	204 42	0.5624_n	461
25	12.36	0.9948	303 2	1.3046	203 47	0.5476_n	498
26	+12.52	0.9961	303 25	1.3050	202 53	0.5321_n	535
27	12.69	0.9974	303 47	1.3055	201 59	0.5160_n	571
28	12.85	0.9987	304 10	1.3059	201 5	0.4990_n	608

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit		f (″)	log. g	G (° ′)	log. h	H (° ′)	log. i	☾
Mai	28	+12.85	0.9987	304 10	1.3059	201 5	0.4990$_n$	608
	29	13.02	1.0001	304 32	1.3063	200 11	0.4814$_n$	644
	30	13.18	1.0015	304 54	1.3067	199 17	0.4628$_n$	681
	31	13.35	1.0030	305 16	1.3071	198 23	0.4432$_n$	718
Juni	1	13.52	1.0045	305 38	1.3075	197 29	0.4226$_n$	754
	2	+13.69	1.0061	306 0	1.3078	196 36	0.4009$_n$	791
	3	13.86	1.0077	306 22	1.3082	195 42	0.3779$_n$	827
	4	14.03	1.0093	306 43	1.3085	194 49	0.3535$_n$	864
	5	14.20	1.0109	307 5	1.3088	193 56	0.3275$_n$	901
	6	14.37	1.0126	307 26	1.3091	193 3	0.2998$_n$	937
	7	+14.54	1.0143	307 47	1.3093	192 9	0.2700$_n$	974
	8	14.72	1.0161	308 8	1.3096	191 16	0.2379$_n$	010
	9	14.89	1.0179	308 29	1.3098	190 23	0.2033$_n$	047
	10	15.07	1.0197	308 49	1.3100	189 30	0.1653$_n$	084
	11	15.24	1.0215	309 9	1.3102	188 38	0.1236$_n$	120
	12	+15.42	1.0234	309 29	1.3104	187 45	0.0774$_n$	157
	13	15.59	1.0253	309 48	1.3105	186 52	0.0255$_n$	193
	14	15.77	1.0273	310 7	1.3107	185 59	9.9665$_n$	230
	15	15.94	1.0293	310 26	1.3108	185 7	9.8980$_n$	267
	16	16.12	1.0313	310 45	1.3109	184 14	9.8166$_n$	303
	17	+16.29	1.0333	311 4	1.3110	183 22	9.7161$_n$	340
	18	16.47	1.0353	311 22	1.3111	182 29	9.5850$_n$	376
	19	16.65	1.0374	311 40	1.3111	181 36	9.3964$_n$	413
	20	16.82	1.0394	311 58	1.3111	180 44	9.0550$_n$	450
	21	17.00	1.0415	312 15	1.3111	179 51	8.3463	486
	22	+17.18	1.0437	312 32	1.3111	178 59	9.1981	523
	23	17.35	1.0458	312 49	1.3111	178 6	9.4675	559
	24	17.53	1.0480	313 5	1.3110	177 14	9.6322	596
	25	17.70	1.0502	313 21	1.3110	176 21	9.7514	633
	26	17.88	1.0524	313 37	1.3109	175 29	9.8447	669
	27	+18.05	1.0546	313 53	1.3108	174 36	9.9214	706
	28	18.23	1.0568	314 8	1.3106	173 44	9.9864	742
	29	18.40	1.0590	314 23	1.3105	172 51	0.0428	779
	30	18.58	1.0612	314 37	1.3103	171 58	0.0926	816
Juli	1	18.76	1.0634	314 52	1.3101	171 6	0.1372	852
	2	+18.93	1.0656	315 6	1.3099	170 13	0.1775	889
	3	19.11	1.0679	315 20	1.3097	169 20	0.2142	925
	4	19.28	1.0701	315 33	1.3095	168 27	0.2480	962

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12h Mittl. Zeit		f	log. g	G	log. h	H	log. i	☾
Juli	4	+19.28	1.0701	315° 33′	1.3095	168° 27′	0.2480	962
	5	19.45	1.0724	315 46	1.3092	167 35	0.2793	999
	6	19.62	1.0746	315 59	1.3090	166 42	0.3083	035
	7	19.79	1.0769	316 12	1.3087	165 48	0.3354	072
	8	19.96	1.0791	316 24	1.3084	164 55	0.3608	108
	9	+20.13	1.0814	316 36	1.3080	164 2	0.3847	145
	10	20.30	1.0836	316 48	1.3077	163 9	0.4072	182
	11	20.47	1.0859	316 59	1.3074	162 16	0.4285	218
	12	20.64	1.0881	317 10	1.3070	161 22	0.4487	255
	13	20.81	1.0904	317 21	1.3066	160 29	0.4679	291
	14	+20.97	1.0926	317 31	1.3062	159 35	0.4861	328
	15	21.14	1.0948	317 41	1.3058	158 41	0.5035	365
	16	21.30	1.0970	317 51	1.3054	157 47	0.5202	401
	17	21.46	1.0992	318 1	1.3049	156 53	0.5361	438
	18	21.63	1.1014	318 10	1.3045	155 59	0.5513	474
	19	+21.79	1.1036	318 20	1.3040	155 5	0.5659	511
	20	21.95	1.1057	318 29	1.3035	154 11	0.5799	548
	21	22.11	1.1079	318 38	1.3030	153 17	0.5933	584
	22	22.27	1.1100	318 47	1.3025	152 22	0.6062	621
	23	22.43	1.1121	318 55	1.3020	151 27	0.6187	657
	24	+22.58	1.1142	319 3	1.3015	150 32	0.6306	694
	25	22.74	1.1163	319 11	1.3009	149 37	0.6422	731
	26	22.89	1.1184	319 18	1.3004	148 42	0.6533	767
	27	23.04	1.1205	319 26	1.2998	147 46	0.6641	804
	28	23.19	1.1225	319 33	1.2992	146 51	0.6744	840
	29	+23.34	1.1246	319 40	1.2987	145 55	0.6844	877
	30	23.49	1.1266	319 47	1.2981	144 59	0.6941	914
	31	23.64	1.1286	319 54	1.2975	144 3	0.7034	950
Aug.	1	23.78	1.1306	320 0	1.2969	143 7	0.7124	987
	2	23.93	1.1326	320 7	1.2963	142 11	0.7211	023
	3	+24.07	1.1345	320 13	1.2957	141 14	0.7296	060
	4	24.21	1.1365	320 19	1.2951	140 17	0.7377	097
	5	24.36	1.1384	320 25	1.2944	139 21	0.7456	133
	6	24.50	1.1403	320 31	1.2938	138 24	0.7532	170
	7	24.64	1.1422	320 36	1.2932	137 26	0.7606	206
	8	+24.78	1.1440	320 41	1.2926	136 29	0.7678	243
	9	24.91	1.1458	320 47	1.2919	135 31	0.7747	280
	10	25.05	1.1476	320 52	1.2913	134 34	0.7814	316

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Aug. 10	+25.05″	1.1476	320° 52′	1.2913	134° 34′	0.7814	316
11	25.18	1.1494	320 57	1.2907	133 36	0.7879	353
12	25.31	1.1512	321 2	1.2901	132 37	0.7941	389
13	25.44	1.1529	321 7	1.2894	131 39	0.8001	426
14	25.57	1.1546	321 12	1.2888	130 40	0.8060	463
15	+25.70	1.1563	321 16	1.2882	129 42	0.8116	499
16	25.83	1.1580	321 21	1.2876	128 43	0.8171	536
17	25.95	1.1597	321 25	1.2870	127 44	0.8224	572
18	26.08	1.1614	321 30	1.2864	126 45	0.8274	609
19	26.20	1.1630	321 34	1.2858	125 45	0.8323	646
20	+26.32	1.1646	321 38	1.2852	124 46	0.8371	682
21	26.45	1.1661	321 42	1.2846	123 46	0.8416	719
22	26.57	1.1677	321 46	1.2840	122 46	0.8460	755
23	26.69	1.1692	321 51	1.2834	121 45	0.8503	792
24	26.80	1.1707	321 55	1.2829	120 45	0.8544	829
25	+26.92	1.1722	321 59	1.2823	119 44	0.8583	865
26	27.03	1.1737	322 3	1.2818	118 44	0.8620	902
27	27.15	1.1751	322 7	1.2812	117 43	0.8656	938
28	27.26	1.1765	322 11	1.2807	116 41	0.8691	975
29	27.38	1.1779	322 15	1.2802	115 40	0.8724	012
30	+27.49	1.1793	322 19	1.2797	114 39	0.8756	048
31	27.60	1.1806	322 23	1.2793	113 37	0.8786	085
Sept. 1	27.71	1.1820	322 27	1.2788	112 35	0.8814	122
2	27.82	1.1833	322 31	1.2784	111 33	0.8842	158
3	27.93	1.1846	322 35	1.2779	110 31	0.8868	195
4	+28.04	1.1859	322 39	1.2775	109 29	0.8892	231
5	28.14	1.1871	322 43	1.2772	108 27	0.8915	268
6	28.25	1.1883	322 47	1.2768	107 24	0.8937	305
7	28.35	1.1895	322 51	1.2764	106 21	0.8958	341
8	28.45	1.1907	322 55	1.2761	105 19	0.8977	378
9	+28.56	1.1919	322 59	1.2758	104 16	0.8995	414
10	28.66	1.1931	323 4	1.2755	103 13	0.9011	451
11	28.77	1.1943	323 8	1.2752	102 10	0.9026	488
12	28.87	1.1954	323 13	1.2750	101 6	0.9040	524
13	28.97	1.1965	323 17	1.2747	100 3	0.9053	561
14	+29.07	1.1976	323 22	1.2745	98 59	0.9064	597
15	29.17	1.1987	323 26	1.2743	97 56	0.9074	634
16	29.27	1.1997	323 31	1.2742	96 52	0.9083	671

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12^h Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Sept. 16	+29.27"	1.1997	323° 31'	1.2742	96° 52'	0.9083	671
17	29.37	1.2008	323 36	1.2740	95 49	0.9091	707
18	29.47	1.2018	323 40	1.2739	94 45	0.9097	744
19	29.57	1.2029	323 45	1.2738	93 41	0.9102	780
20	29.67	1.2039	323 50	1.2737	92 37	0.9106	817
21	+29.77	1.2049	323 55	1.2737	91 33	0.9108	854
22	29.87	1.2059	324 0	1.2737	90 29	0.9109	890
23	29.97	1.2069	324 5	1.2737	89 25	0.9109	927
24	30.07	1.2078	324 10	1.2737	88 21	0.9108	963
25	30.17	1.2088	324 15	1.2738	87 17	0.9105	000
26	+30.27	1.2097	324 21	1.2738	86 13	0.9101	037
27	30.37	1.2107	324 26	1.2739	85 8	0.9096	073
28	30.47	1.2116	324 32	1.2740	84 4	0.9090	110
29	30.58	1.2125	324 38	1.2742	83 0	0.9082	146
30	30.68	1.2134	324 44	1.2744	81 56	0.9073	183
Okt. 1	+30.78	1.2143	324 50	1.2746	80 52	0.9063	220
2	30.88	1.2152	324 56	1.2748	79 48	0.9051	256
3	30.98	1.2161	325 2	1.2750	78 44	0.9038	293
4	31.08	1.2170	325 8	1.2753	77 40	0.9024	329
5	31.19	1.2179	325 14	1.2755	76 36	0.9008	366
6	+31.29	1.2188	325 21	1.2758	75 32	0.8991	403
7	31.40	1.2197	325 28	1.2762	74 28	0.8973	439
8	31.50	1.2205	325 35	1.2765	73 24	0.8953	476
9	31.61	1.2214	325 42	1.2769	72 20	0.8932	512
10	31.71	1.2223	325 49	1.2773	71 16	0.8909	549
11	+31.82	1.2232	325 56	1.2777	70 13	0.8885	586
12	31.93	1.2240	326 3	1.2781	69 9	0.8859	622
13	32.04	1.2249	326 10	1.2785	68 6	0.8832	659
14	32.15	1.2257	326 17	1.2790	67 3	0.8804	695
15	32.26	1.2266	326 24	1.2795	65 59	0.8774	732
16	+32.38	1.2275	326 32	1.2799	64 56	0.8743	769
17	32.49	1.2283	326 39	1.2804	63 53	0.8710	805
18	32.61	1.2292	326 47	1.2810	62 50	0.8675	842
19	32.72	1.2301	326 55	1.2815	61 47	0.8639	878
20	32.84	1.2310	327 3	1.2821	60 45	0.8601	915
21	+32.96	1.2319	327 11	1.2826	59 42	0.8561	952
22	33.08	1.2328	327 19	1.2832	58 40	0.8520	988
23	33.20	1.2337	327 27	1.2838	57 37	0.8477	025

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
	"		° '		° '		
Okt. 23	+33.20	1.2337	327 27	1.2838	57 37	0.8477	025
24	33.32	1.2347	327 36	1.2844	56 35	0.8432	061
25	33.44	1.2356	327 44	1.2850	55 33	0.8385	098
26	33.57	1.2366	327 53	1.2856	54 31	0.8337	135
27	33.69	1.2376	328 1	1.2862	53 29	0.8286	171
28	+33.82	1.2385	328 10	1.2868	52 28	0.8233	208
29	33.95	1.2395	328 18	1.2875	51 27	0.8179	244
30	34.08	1.2404	328 27	1.2881	50 25	0.8123	281
31	34.21	1.2414	328 36	1.2888	49 24	0.8064	318
Nov. 1	34.34	1.2424	328 45	1.2894	48 23	0.8004	354
2	+34.47	1.2434	328 54	1.2900	47 22	0.7941	391
3	34.61	1.2444	329 3	1.2907	46 22	0.7875	427
4	34.74	1.2454	329 12	1.2914	45 21	0.7807	464
5	34.88	1.2465	329 21	1.2920	44 21	0.7737	501
6	35.02	1.2475	329 30	1.2927	43 20	0.7665	537
7	+35.16	1.2486	329 39	1.2933	42 20	0.7589	574
8	35.30	1.2497	329 48	1.2940	41 20	0.7511	610
9	35.45	1.2508	329 57	1.2946	40 21	0.7430	647
10	35.59	1.2519	330 6	1.2953	39 21	0.7346	684
11	35.74	1.2531	330 15	1.2959	38 21	0.7260	720
12	+35.89	1.2542	330 24	1.2966	37 22	0.7170	757
13	36.04	1.2554	330 33	1.2972	36 23	0.7076	793
14	36.19	1.2566	330 42	1.2978	35 24	0.6980	830
15	36.34	1.2578	330 51	1.2985	34 25	0.6879	867
16	36.49	1.2590	331 0	1.2991	33 26	0.6775	903
17	+36.65	1.2602	331 9	1.2997	32 27	0.6666	940
18	36.81	1.2614	331 18	1.3003	31 29	0.6554	976
19	36.97	1.2627	331 27	1.3008	30 31	0.6437	013
20	37.13	1.2639	331 36	1.3014	29 32	0.6315	050
21	37.29	1.2652	331 45	1.3020	28 34	0.6189	086
22	+37.45	1.2665	331 54	1.3025	27 36	0.6057	123
23	37.62	1.2678	332 3	1.3031	26 38	0.5920	159
24	37.78	1.2691	332 12	1.3036	25 41	0.5777	196
25	37.95	1.2705	332 20	1.3041	24 43	0.5627	233
26	38.12	1.2718	332 29	1.3046	23 46	0.5471	269
27	+38.29	1.2732	332 37	1.3051	22 48	0.5307	306
28	38.46	1.2746	332 45	1.3055	21 51	0.5135	342
29	38.63	1.2760	332 53	1.3060	20 54	0.4955	379

Konstanten für die mittleren Tage 1912,

ohne Berücksichtigung der von der Mondlänge abhängenden Glieder der Nutation.

12ʰ Mittl. Zeit	f	log. g	G	log. h	H	log. i	☾
Nov. 29	+38.63″	1.2760	332° 53′	1.3060	20° 54′	0.4955	379
30	38.80	1.2774	333 1	1.3064	19 57	0.4766	416
Dez. 1	38.97	1.2788	333 9	1.3068	19 0	0.4567	452
2	39.14	1.2802	333 17	1.3072	18 3	0.4356	489
3	39.32	1.2816	333 25	1.3076	17 6	0.4133	525
4	+39.49	1.2830	333 33	1.3080	16 9	0.3897	562
5	39.67	1.2845	333 41	1.3083	15 13	0.3645	599
6	39.85	1.2860	333 49	1.3087	14 16	0.3377	635
7	40.03	1.2875	333 56	1.3090	13 20	0.3089	672
8	40.21	1.2890	334 3	1.3093	12 23	0.2779	708
9	+40.39	1.2905	334 10	1.3095	11 27	0.2444	745
10	40.57	1.2920	334 17	1.3098	10 30	0.2079	782
11	40.75	1.2935	334 24	1.3100	9 34	0.1679	818
12	40.93	1.2950	334 31	1.3102	8 38	0.1238	855
13	41.11	1.2965	334 38	1.3104	7 42	0.0744	891
14	+41.29	1.2980	334 45	1.3106	6 45	0.0185	928
15	41.48	1.2996	334 51	1.3107	5 49	9.9542	965
16	41.66	1.3011	334 57	1.3108	4 53	9.8785	001
17	41.84	1.3027	335 3	1.3109	3 57	9.7865	038
18	42.02	1.3042	335 9	1.3110	3 1	9.6696	074
19	+42.21	1.3058	335 15	1.3111	2 5	9.5088	111
20	42.40	1.3073	335 21	1.3111	1 9	9.2504	148
21	42.58	1.3089	335 26	1.3111	0 13	8.5211	184
22	42.77	1.3104	335 32	1.3111	359 17	9.0480_n	221
23	42.95	1.3120	335 37	1.3111	358 21	9.4091_n	257
24	+43.13	1.3136	335 42	1.3110	357 25	9.6035_n	294
25	43.32	1.3151	335 47	1.3110	356 29	9.7372_n	331
26	43.50	1.3167	335 52	1.3109	355 32	9.8391_n	367
27	43.69	1.3183	335 56	1.3108	354 36	9.9215_n	404
28	43.87	1.3199	336 1	1.3106	353 40	9.9907_n	440
29	+44.05	1.3214	336 5	1.3105	352 44	0.0502_n	477
30	44.23	1.3230	336 9	1.3103	351 47	0.1024_n	514
31	44.42	1.3245	336 13	1.3101	350 51	0.1489_n	550
32	44.60	1.3261	336 17	1.3099	349 55	0.1907_n	587
33	44.78	1.3276	336 21	1.3096	348 58	0.2287_n	623
34	+44.96	1.3292	336 25	1.3094	348 2	0.2636_n	660
35	45.14	1.3307	336 28	1.3091	347 5	0.2957_n	697
36	45.32	1.3323	336 32	1.3088	346 8	0.3255_n	733

Konstanten zur Berücksichtigung der Nutationsglieder von kurzer Periode für 1912.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
000	7.051_n	8.946_n	−0″.05	8.960	255°.7	350	7.593	8.436	+0″.18	8.920	19°.2
010	7.224_n	8.943_n	−0.08	8.973	249.0	360	7.616	8.219	+0.19	8.926	11.3
020	7.345_n	8.933_n	−0.10	8.984	242.6	370	7.631	7.744	+0.20	8.934	3.7
030	7.436_n	8.915_n	−0.13	8.995	236.3	380	7.639	7.744_n	+0.20	8.942	356.4
040	7.508_n	8.889_n	−0.15	9.004	230.2	390	7.641	8.219_n	+0.20	8.951	349.3
050	7.565_n	8.854_n	−0.17	9.011	224.2	400	7.636	8.436_n	+0.20	8.959	342.5
060	7.611_n	8.809_n	−0.19	9.018	218.2	410	7.625	8.576_n	+0.20	8.966	336.0
070	7.648_n	8.751_n	−0.21	9.023	212.3	420	7.608	8.675_n	+0.19	8.973	329.7
080	7.677_n	8.675_n	−0.22	9.027	206.4	430	7.583	8.751_n	+0.18	8.978	323.7
090	7.699_n	8.576_n	−0.23	9.030	200.6	440	7.550	8.809_n	+0.16	8.982	317.8
100	7.715_n	8.436_n	−0.24	9.031	194.7	450	7.508	8.854_n	+0.15	8.984	312.1
110	7.725_n	8.219_n	−0.24	9.032	188.8	460	7.456	8.889_n	+0.13	8.984	306.5
120	7.729_n	7.744_n	−0.25	9.032	182.9	470	7.391	8.915_n	+0.11	8.982	300.9
130	7.728_n	7.744	−0.25	9.030	177.0	480	7.308	8.933_n	+0.09	8.977	295.4
140	7.721_n	8.219	−0.24	9.028	171.1	490	7.200	8.943_n	+0.07	8.970	289.9
150	7.708_n	8.436	−0.23	9.025	165.0	500	7.051	8.946_n	+0.05	8.960	284.3
160	7.689_n	8.576	−0.22	9.020	158.9	510	6.821	8.943_n	+0.03	8.948	278.6
170	7.663_n	8.675	−0.21	9.015	152.8	520	6.306	8.933_n	+0.01	8.933	272.7
180	7.629_n	8.751	−0.20	9.010	146.6	530	6.392_n	8.915_n	−0.01	8.916	266.6
190	7.587_n	8.809	−0.18	9.003	140.2	540	6.831_n	8.889_n	−0.03	8.896	260.1
200	7.534_n	8.854	−0.16	8.996	133.8	550	7.034_n	8.854_n	−0.05	8.874	253.2
210	7.468_n	8.889	−0.14	8.988	127.2	560	7.162_n	8.809_n	−0.07	8.850	245.7
220	7.383_n	8.915	−0.11	8.980	120.5	570	7.252_n	8.751_n	−0.08	8.825	237.6
230	7.272_n	8.933	−0.09	8.971	113.7	580	7.318_n	8.675_n	−0.09	8.800	228.7
240	7.116_n	8.943	−0.06	8.962	106.6	590	7.365_n	8.576_n	−0.11	8.777	219.0
250	6.864_n	8.946	−0.03	8.952	99.4	600	7.399_n	8.436_n	−0.12	8.757	208.5
260	6.180_n	8.943	−0.01	8.943	92.0	610	7.422_n	8.219_n	−0.12	8.744	197.4
270	6.626	8.933	+0.02	8.935	84.3	620	7.434_n	7.744_n	−0.13	8.738	185.8
280	6.992	8.915	+0.05	8.927	76.5	630	7.437_n	7.744	−0.13	8.741	174.2
290	7.182	8.889	+0.07	8.920	68.5	640	7.430_n	8.219	−0.12	8.752	162.9
300	7.308	8.854	+0.09	8.915	60.4	650	7.414_n	8.436	−0.12	8.769	152.3
310	7.399	8.809	+0.12	8.912	52.1	660	7.388_n	8.576	−0.11	8.791	142.4
320	7.468	8.751	+0.14	8.911	43.8	670	7.349_n	8.675	−0.10	8.814	133.4
330	7.521	8.675	+0.15	8.912	35.5	680	7.296_n	8.751	−0.09	8.838	125.1
340	7.562	8.576	+0.17	8.915	27.3	690	7.224_n	8.809	−0.08	8.861	117.5
350	7.593	8.436	+0.18	8.920	19.2	700	7.126_n	8.854	−0.06	8.883	110.5

Konstanten zur Berücksichtigung der Nutations-glieder von kurzer Periode für 1912.

☾	log. A'	log. B'	f'	log. g'	G'	☾	log. A'	log. B'	f'	log. g'	G'
700	7.126_n	8.854	−0.″06	8.883	110.°5	850	7.577	8.436	+0.″17	8.906	19.°9
710	6.983_n	8.889	−0.04	8.902	104.0	860	7.582	8.219	+0.18	8.894	12.2
720	6.749_n	8.915	−0.03	8.919	97.8	870	7.580	7.744	+0.18	8.883	4.2
730	6.147_n	8.933	−0.01	8.933	91.9	880	7.570	7.744_n	+0.17	8.873	355.8
740	6.466	8.943	+0.01	8.944	86.2	890	7.553	8.219_n	+0.16	8.866	347.0
750	6.864	8.946	+0.03	8.952	80.6	900	7.527	8.436_n	+0.15	8.862	338.0
760	7.066	8.943	+0.05	8.958	75.1	910	7.491	8.576_n	+0.14	8.861	328.8
770	7.201	8.933	+0.07	8.961	69.6	920	7.444	8.675_n	+0.13	8.864	319.6
780	7.300	8.915	+0.09	8.961	64.0	930	7.382	8.751_n	+0.11	8.871	310.6
790	7.376	8.889	+0.11	8.959	58.4	940	7.299	8.809_n	+0.09	8.880	301.8
800	7.435	8.854	+0.13	8.954	52.7	950	7.186	8.854_n	+0.07	8.891	293.3
810	7.482	8.809	+0.14	8.947	46.7	960	7.017	8.889_n	+0.05	8.904	285.1
820	7.518	8.751	+0.15	8.939	40.4	970	6.716	8.915_n	+0.02	8.918	277.2
830	7.546	8.675	+0.16	8.929	33.9	980	5.283_n	8.933_n	0.00	8.933	269.7
840	7.565	8.576	+0.17	8.918	27.1	990	6.756_n	8.943_n	−0.03	8.947	262.6
850	7.577	8.436	+0.17	8.906	19.9	000	7.051_n	8.946_n	−0.05	8.960	255.7

Korrektion der Schiefe der Ekliptik für die Glieder von kurzer Periode.

Argument ☾		Δε	Argument ☾		Δε	Argument ☾		Δε
000	500	+0.″09	200	700	−0.″07	400	900	+0.″03
020	520	+0.09	220	720	−0.08	420	920	+0.05
040	540	+0.08	240	740	−0.09	440	940	+0.07
060	560	+0.07	260	760	−0.09	460	960	+0.08
080	580	+0.05	280	780	−0.08	480	980	+0.09
100	600	+0.03	300	800	−0.07	500	000	+0.09
120	620	+0.01	320	820	−0.06			
140	640	−0.02	340	840	−0.04			
160	660	−0.04	360	860	−0.02			
180	680	−0.06	380	880	+0.01			
200	700	−0.07	400	900	+0.03			

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit		τ	log. A	log. B	log. C	log. D	C
Jan.	1.257	0.0000	9.1690_n	0.8787_n	0.5115_n	1.3045	—3.247
	2.254	0.0027	9.1520_n	0.8780_n	0.5533_n	1.3031	3.575
	3.251	0.0055	9.1333_n	0.8782_n	0.5912_n	1.3015	3.901
	4.249	0.0082	9.1139_n	0.8796_n	0.6260_n	1.2998	4.227
	5.246	0.0109	9.0952_n	0.8819_n	0.6581_n	1.2980	4.551
	6.243	0.0136	9.0781_n	0.8848_n	0.6878_n	1.2960	—4.873
	7.241	0.0164	9.0637_n	0.8878_n	0.7155_n	1.2938	5.194
	8.238	0.0191	9.0521_n	0.8905_n	0.7414_n	1.2915	5.513
	9.235	0.0218	9.0430_n	0.8926_n	0.7657_n	1.2891	5.831
	10.232	0.0246	9.0348_n	0.8936_n	0.7886_n	1.2865	6.147
	11.230	0.0273	9.0266_n	0.8938_n	0.8103_n	1.2838	—6.461
	12.227	0.0300	9.0165_n	0.8931_n	0.8307_n	1.2809	
	13.224	0.0328	9.0035_n	0.8919_n	0.8501_n	1.2778	
	14.221	0.0355	8.9868_n	0.8906_n	0.8686_n	1.2746	
	15.219	0.0382	8.9661_n	0.8898_n	0.8862_n	1.2712	
	16.216	0.0410	8.9420_n	0.8898_n	0.9029_n	1.2677	
	17.213	0.0437	8.9156_n	0.8908_n	0.9189_n	1.2640	
	18.211	0.0464	8.8885_n	0.8928_n	0.9342_n	1.2601	
	19.208	0.0491	8.8630_n	0.8956_n	0.9488_n	1.2561	
	20.205	0.0519	8.8405_n	0.8989_n	0.9628_n	1.2518	
	21.202	0.0546	8.8223_n	0.9022_n	0.9763_n	1.2474	
	22.200	0.0573	8.8083_n	0.9050_n	0.9892_n	1.2428	
	23.197	0.0601	8.7971_n	0.9071_n	1.0016_n	1.2381	
	24.194	0.0628	8.7866_n	0.9081_n	1.0135_n	1.2331	
	25.191	0.0655	8.7739_n	0.9082_n	1.0250_n	1.2280	
	26.189	0.0683	8.7562_n	0.9076_n	1.0360_n	1.2226	
	27.186	0.0710	8.7311_n	0.9067_n	1.0467_n	1.2171	
	28.183	0.0737	8.6970_n	0.9058_n	1.0569_n	1.2113	
	29.181	0.0764	8.6532_n	0.9055_n	1.0668_n	1.2053	
	30.178	0.0792	8.5997_n	0.9060_n	1.0763_n	1.1991	
	31.175	0.0819	8.5372_n	0.9074_n	1.0855_n	1.1927	
Febr.	1.172	0.0846	8.4683_n	0.9098_n	1.0943_n	1.1861	
	2.170	0.0874	8.3978_n	0.9129_n	1.1029_n	1.1792	
	3.167	0.0901	8.3314_n	0.9162_n	1.1111_n	1.1720	
	4.164	0.0928	8.2744_n	0.9194_n	1.1190_n	1.1646	
	5.161	0.0956	8.2284_n	0.9220_n	1.1267_n	1.1570	
	6.159	0.0983	8.1914_n	0.9238_n	1.1341_n	1.1491	
	7.156	0.1010	8.1550_n	0.9246_n	1.1413_n	1.1408	

$E = -0''.02$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen 0^h $50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Febr. 7.156	0.1010	8.1550_n	0.9246_n	1.1413_n	1.1408	
8.153	0.1038	8.1079_n	0.9246_n	1.1482_n	1.1323	
9.151	0.1065	8.0342_n	0.9239_n	1.1548_n	1.1235	
10.148	0.1092	7.9085_n	0.9230_n	1.1612_n	1.1144	
11.145	0.1120	7.6674_n	0.9223_n	1.1674_n	1.1050	
12.142	0.1147	6.7924_n	0.9221_n	1.1734_n	1.0952	
13.140	0.1174	7.5717	0.9229_n	1.1791_n	1.0850	
14.137	0.1201	7.9015	0.9245_n	1.1847_n	1.0745	
15.134	0.1229	8.0719	0.9270_n	1.1900_n	1.0635	
16.131	0.1256	8.1746	0.9300_n	1.1951_n	1.0522	
17.129	0.1283	8.2373	0.9331_n	1.2001_n	1.0404	
18.126	0.1311	8.2742	0.9359_n	1.2048_n	1.0282	
19.123	0.1338	8.2953	0.9381_n	1.2094_n	1.0154	
20.121	0.1365	8.3096	0.9394_n	1.2138_n	1.0022	
21.118	0.1393	8.3257	0.9398_n	1.2180_n	0.9884	
22.115	0.1420	8.3506	0.9393_n	1.2220_n	0.9740	
23.112	0.1447	8.3876	0.9384_n	1.2259_n	0.9590	
24.110	0.1474	8.4360	0.9373_n	1.2296_n	0.9433	
25.107	0.1502	8.4909	0.9366_n	1.2331_n	0.9269	
26.104	0.1529	8.5472	0.9364_n	1.2365_n	0.9098	
27.101	0.1556	8.5997	0.9372_n	1.2397_n	0.8918	
28.099	0.1584	8.6454	0.9388_n	1.2427_n	0.8729	
29.096	0.1611	8.6822	0.9411_n	1.2456_n	0.8530	
März 1.093	0.1638	8.7096	0.9438_n	1.2483_n	0.8320	
2.090	0.1666	8.7282	0.9465_n	1.2509_n	0.8098	+6.454
3.088	0.1693	8.7396	0.9488_n	1.2534_n	0.7864	+6.114
4.085	0.1720	8.7461	0.9503_n	1.2557_n	0.7614	5.773
5.082	0.1747	8.7503	0.9510_n	1.2578_n	0.7348	5.430
6.080	0.1775	8.7553	0.9508_n	1.2598_n	0.7063	5.085
7.077	0.1802	8.7635	0.9498_n	1.2617_n	0.6757	4.739
8.074	0.1829	8.7767	0.9485_n	1.2634_n	0.6426	+4.392
9.071	0.1857	8.7948	0.9471_n	1.2650_n	0.6068	4.043
10.069	0.1884	8.8167	0.9461_n	1.2665_n	0.5675	3.694
11.066	0.1911	8.8402	0.9459_n	1.2678_n	0.5242	3.343
12.063	0.1939	8.8631	0.9465_n	1.2690_n	0.4760	2.992
13.060	0.1966	8.8833	0.9479_n	1.2700_n	0.4217	+2.641
14.058	0.1993	8.8994	0.9499_n	1.2709_n	0.3595	2.288
15.055	0.2021	8.9108	0.9522_n	1.2717_n	0.2867	1.935

$E = -0.01$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
März 15.055	0.2021	8.9108	0.9522_n	1.2717_n	0.2867	+1.935
16.052	0.2048	8.9178	0.9544_n	1.2724_n	0.1992	1.582
17.050	0.2075	8.9213	0.9560_n	1.2729_n	0.0893	1.228
18.047	0.2102	8.9225	0.9569_n	1.2733_n	9.9418	0.874
19.044	0.2130	8.9238	0.9568_n	1.2735_n	9.7166	0.521
20.041	0.2157	8.9269	0.9560_n	1.2737_n	9.2224	+0.167
21.039	0.2184	8.9334	0.9544_n	1.2737_n	9.2714_n	−0.187
22.036	0.2212	8.9442	0.9526_n	1.2735_n	9.7326_n	0.540
23.033	0.2239	8.9590	0.9509_n	1.2733_n	9.9510_n	0.893
24.030	0.2266	8.9765	0.9497_n	1.2729_n	0.0955_n	1.246
25.028	0.2294	8.9954	0.9492_n	1.2724_n	0.2035_n	−1.598
26.025	0.2321	9.0136	0.9496_n	1.2717_n	0.2898_n	1.949
27.022	0.2348	9.0299	0.9508_n	1.2709_n	0.3617_n	2.300
28.020	0.2375	9.0429	0.9525_n	1.2700_n	0.4231_n	2.649
29.017	0.2403	9.0525	0.9544_n	1.2690_n	0.4768_n	2.998
30.014	0.2430	9.0586	0.9560_n	1.2678_n	0.5245_n	−3.346
31.011	0.2457	9.0621	0.9570_n	1.2665_n	0.5673_n	3.692
April 1.008	0.2485	9.0642	0.9571_n	1.2651_n	0.6061_n	4.037
2.006	0.2512	9.0661	0.9564_n	1.2635_n	0.6416_n	4.381
3.003	0.2539	9.0694	0.9549_n	1.2618_n	0.6742_n	4.723
4.000	0.2567	9.0749	0.9528_n	1.2600_n	0.7045_n	−5.064
4.998	0.2594	9.0831	0.9506_n	1.2580_n	0.7326_n	5.403
5.995	0.2621	9.0939	0.9486_n	1.2559_n	0.7589_n	5.740
6.992	0.2649	9.1063	0.9471_n	1.2537_n	0.7836_n	6.075
7.989	0.2676	9.1193	0.9465_n	1.2513_n	0.8068_n	6.409
8.987	0.2703	9.1315	0.9468_n	1.2488_n	0.8286_n	
9.984	0.2730	9.1420	0.9478_n	1.2461_n	0.8494_n	
10.981	0.2758	9.1502	0.9492_n	1.2433_n	0.8690_n	
11.979	0.2785	9.1558	0.9506_n	1.2404_n	0.8876_n	
12.976	0.2812	9.1591	0.9518_n	1.2373_n	0.9054_n	
13.973	0.2840	9.1611	0.9522_n	1.2340_n	0.9223_n	
14.970	0.2867	9.1624	0.9517_n	1.2306_n	0.9385_n	
15.968	0.2894	9.1646	0.9504_n	1.2271_n	0.9539_n	
16.965	0.2922	9.1684	0.9483_n	1.2234_n	0.9687_n	
17.962	0.2949	9.1747	0.9458_n	1.2196_n	0.9829_n	
18.959	0.2976	9.1835	0.9432_n	1.2156_n	0.9965_n	
19.957	0.3003	9.1945	0.9410_n	1.2114_n	1.0096_n	
20.954	0.3031	9.2067	0.9395_n	1.2071_n	1.0221_n	

$E = -0''.02$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen 0^h $50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
April 20.954	0.3031	9.2067	0.9395_n	1.2071_n	1.0221_n
21.951	0.3058	9.2193	0.9389_n	1.2026_n	1.0341_n
22.949	0.3085	9.2311	0.9391_n	1.1979_n	1.0458_n
23.946	0.3113	9.2413	0.9400_n	1.1930_n	1.0569_n
24.943	0.3140	9.2495	0.9413_n	1.1880_n	1.0677_n
25.940	0.3167	9.2554	0.9425_n	1.1828_n	1.0781_n
26.938	0.3195	9.2595	0.9432_n	1.1774_n	1.0881_n
27.935	0.3222	9.2624	0.9432_n	1.1718_n	1.0978_n
28.932	0.3249	9.2650	0.9423_n	1.1661_n	1.1071_n
29.929	0.3277	9.2681	0.9405_n	1.1601_n	1.1161_n
30.927	0.3304	9.2724	0.9380_n	1.1539_n	1.1248_n
Mai 1.924	0.3331	9.2784	0.9352_n	1.1475_n	1.1332_n
2.921	0.3358	9.2861	0.9325_n	1.1409_n	1.1413_n
3.918	0.3386	9.2951	0.9303_n	1.1340_n	1.1492_n
4.916	0.3413	9.3049	0.9289_n	1.1270_n	1.1567_n
5.913	0.3440	9.3145	0.9284_n	1.1196_n	1.1641_n
6.910	0.3468	9.3233	0.9288_n	1.1121_n	1.1711_n
7.908	0.3495	9.3307	0.9299_n	1.1043_n	1.1780_n
8.905	0.3522	9.3364	0.9311_n	1.0962_n	1.1846_n
9.902	0.3550	9.3405	0.9322_n	1.0878_n	1.1910_n
10.899	0.3577	9.3435	0.9327_n	1.0792_n	1.1972_n
11.897	0.3604	9.3458	0.9324_n	1.0703_n	1.2031_n
12.894	0.3631	9.3483	0.9311_n	1.0610_n	1.2089_n
13.891	0.3659	9.3517	0.9291_n	1.0515_n	1.2144_n
14.888	0.3686	9.3565	0.9264_n	1.0416_n	1.2198_n
15.886	0.3713	9.3630	0.9236_n	1.0313_n	1.2250_n
16.883	0.3741	9.3711	0.9210_n	1.0207_n	1.2299_n
17.880	0.3768	9.3803	0.9191_n	1.0097_n	1.2348_n
18.878	0.3795	9.3900	0.9180_n	0.9983_n	1.2394_n
19.875	0.3823	9.3994	0.9179_n	0.9864_n	1.2439_n
20.872	0.3850	9.4081	0.9186_n	0.9741_n	1.2482_n
21.869	0.3877	9.4154	0.9199_n	0.9614_n	1.2523_n
22.867	0.3904	9.4213	0.9214_n	0.9481_n	1.2563_n
23.864	0.3932	9.4257	0.9225_n	0.9343_n	1.2601_n
24.861	0.3959	9.4292	0.9229_n	0.9199_n	1.2637_n
25.858	0.3986	9.4321	0.9225_n	0.9048_n	1.2672_n
26.856	0.4014	9.4352	0.9212_n	0.8892_n	1.2706_n
27.853	0.4041	9.4389	0.9191_n	0.8728_n	1.2738_n

$$E = -0.02$$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Mai 27.853	0.4041	9.4389	0.9191_n	0.8728_n	1.2738_n	—7.461
28.850	0.4068	9.4437	0.9165_n	0.8556_n	1.2769_n	7.172
29.847	0.4096	9.4495	0.9139_n	0.8377_n	1.2798_n	6.882
30.845	0.4123	9.4565	0.9116_n	0.8188_n	1.2826_n	6.589
31.842	0.4150	9.4641	0.9102_n	0.7990_n	1.2852_n	6.295
Juni 1.839	0.4178	9.4718	0.9096_n	0.7781_n	1.2877_n	—5.999
2.837	0.4205	9.4791	0.9101_n	0.7560_n	1.2901_n	5.702
3.834	0.4232	9.4856	0.9114_n	0.7326_n	1.2924_n	5.403
4.831	0.4259	9.4909	0.9131_n	0.7078_n	1.2945_n	5.103
5.828	0.4287	9.4950	0.9148_n	0.6813_n	1.2964_n	4.801
6.826	0.4314	9.4982	0.9161_n	0.6530_n	1.2983_n	—4.498
7.823	0.4341	9.5007	0.9166_n	0.6226_n	1.3000_n	4.194
8.820	0.4369	9.5031	0.9163_n	0.5898_n	1.3016_n	3.889
9.817	0.4396	9.5059	0.9150_n	0.5542_n	1.3031_n	3.582
10.815	0.4423	9.5095	0.9130_n	0.5153_n	1.3044_n	3.275
11.812	0.4451	9.5143	0.9107_n	0.4724_n	1.3056_n	—2.967
12.809	0.4478	9.5202	0.9085_n	0.4247_n	1.3067_n	2.659
13.807	0.4505	9.5270	0.9069_n	0.3710_n	1.3077_n	2.349
14.804	0.4532	9.5344	0.9061_n	0.3095_n	1.3085_n	2.039
15.801	0.4560	9.5418	0.9063_n	0.2377_n	1.3093_n	1.729
16.798	0.4587	9.5488	0.9074_n	0.1516_n	1.3099_n	—1.418
17.796	0.4614	9.5549	0.9093_n	0.0439_n	1.3104_n	1.107
18.793	0.4642	9.5601	0.9114_n	9.9004_n	1.3107_n	0.795
19.790	0.4669	9.5641	0.9135_n	9.6842_n	1.3110_n	0.483
20.787	0.4696	9.5673	0.9150_n	9.2343_n	1.3111_n	—0.172
21.785	0.4724	9.5699	0.9157_n	9.1471	1.3111_n	+0.140
22.782	0.4751	9.5724	0.9155_n	9.6552	1.3110_n	0.452
23.779	0.4778	9.5752	0.9144_n	9.8829	1.3108_n	0.764
24.776	0.4806	9.5786	0.9127_n	0.0314	1.3104_n	1.075
25.774	0.4833	9.5829	0.9108_n	0.1417	1.3099_n	1.386
26.771	0.4860	9.5879	0.9092_n	0.2296	1.3093_n	+1.697
27.768	0.4887	9.5936	0.9082_n	0.3025	1.3086_n	2.007
28.766	0.4915	9.5995	0.9081_n	0.3648	1.3078_n	2.316
29.763	0.4942	9.6052	0.9090_n	0.4192	1.3068_n	2.625
30.760	0.4969	9.6104	0.9109_n	0.4674	1.3058_n	2.933
Juli 1.757	0.4997	9.6148	0.9133_n	0.5106	1.3046_n	+3.241
2.755	0.5024	9.6184	0.9159_n	0.5499	1.3032_n	3.547
3.752	0.5051	9.6210	0.9182_n	0.5858	1.3018_n	3.853

$$E = -0.01$$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	c
Juli 3.752	0.5051	9.6210	0.9182_n	0.5858	1.3018_n	+3.853
4.749	0.5079	9.6231	0.9199_n	0.6188	1.3002_n	4.157
5.746	0.5106	9.6249	0.9207_n	0.6494	1.2985_n	4.460
6.744	0.5133	9.6268	0.9206_n	0.6778	1.2967_n	4.762
7.741	0.5160	9.6292	0.9197_n	0.7044	1.2947_n	5.063
8.738	0.5188	9.6323	0.9184_n	0.7294	1.2927_n	+5.362
9.736	0.5215	9.6363	0.9170_n	0.7529	1.2904_n	5.660
10.733	0.5242	9.6411	0.9159_n	0.7750	1.2881_n	5.957
11.730	0.5270	9.6465	0.9155_n	0.7960	1.2856_n	6.252
12.727	0.5297	9.6521	0.9162_n	0.8159	1.2830_n	6.545
13.725	0.5324	9.6574	0.9177_n	0.8348	1.2803_n	
14.722	0.5352	9.6623	0.9201_n	0.8528	1.2774_n	
15.719	0.5379	9.6664	0.9229_n	0.8700	1.2743_n	
16.716	0.5406	9.6696	0.9258_n	0.8864	1.2712_n	
17.714	0.5433	9.6721	0.9282_n	0.9021	1.2678_n	
18.711	0.5461	9.6740	0.9300_n	0.9171	1.2644_n	
19.708	0.5488	9.6757	0.9308_n	0.9316	1.2608_n	
20.706	0.5515	9.6774	0.9308_n	0.9454	1.2570_n	
21.703	0.5543	9.6796	0.9300_n	0.9587	1.2531_n	
22.700	0.5570	9.6823	0.9290_n	0.9715	1.2490_n	
23.697	0.5597	9.6857	0.9279_n	0.9838	1.2448_n	
24.695	0.5625	9.6897	0.9273_n	0.9957	1.2404_n	
25.692	0.5652	9.6940	0.9275_n	1.0071	1.2358_n	
26.689	0.5679	9.6983	0.9286_n	1.0181	1.2311_n	
27.686	0.5707	9.7023	0.9306_n	1.0288	1.2262_n	
28.684	0.5734	9.7057	0.9333_n	1.0390	1.2211_n	
29.681	0.5761	9.7084	0.9363_n	1.0489	1.2158_n	
30.678	0.5789	9.7103	0.9392_n	1.0585	1.2104_n	
31.675	0.5816	9.7117	0.9416_n	1.0678	1.2047_n	
Aug. 1.673	0.5843	9.7127	0.9432_n	1.0767	1.1989_n	
2.670	0.5870	9.7137	0.9440_n	1.0853	1.1928_n	
3.667	0.5898	9.7149	0.9438_n	1.0937	1.1865_n	
4.665	0.5925	9.7167	0.9431_n	1.1018	1.1801_n	
5.662	0.5952	9.7192	0.9421_n	1.1096	1.1734_n	
6.659	0.5980	9.7224	0.9413_n	1.1172	1.1664_n	
7.656	0.6007	9.7261	0.9410_n	1.1245	1.1593_n	
8.654	0.6034	9.7302	0.9416_n	1.1316	1.1518_n	
9.651	0.6062	9.7342	0.9430_n	1.1384	1.1442_n	

$E = -0.01$

Konstanten für die Sterntage 1912,
gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	D
Aug. 9.651	0.6062	9.7342	0.9430_n	1.1384	1.1442_n	
10.648	0.6089	9.7379	0.9452_n	1.1451	1.1362_n	
11.645	0.6116	9.7410	0.9480_n	1.1515	1.1280_n	
12.643	0.6143	9.7435	0.9510_n	1.1577	1.1195_n	
13.640	0.6171	9.7453	0.9537_n	1.1637	1.1107_n	
14.637	0.6198	9.7465	0.9558_n	1.1695	1.1016_n	
15.635	0.6225	9.7474	0.9571_n	1.1751	1.0922_n	
16.632	0.6253	9.7483	0.9575_n	1.1805	1.0825_n	
17.629	0.6280	9.7494	0.9571_n	1.1857	1.0723_n	
18.626	0.6307	9.7510	0.9563_n	1.1908	1.0619_n	
19.624	0.6335	9.7531	0.9552_n	1.1957	1.0510_n	
20.621	0.6362	9.7558	0.9545_n	1.2004	1.0397_n	
21.618	0.6389	9.7588	0.9543_n	1.2049	1.0280_n	
22.615	0.6417	9.7620	0.9550_n	1.2093	1.0158_n	
23.613	0.6444	9.7650	0.9565_n	1.2135	1.0032_n	
24.610	0.6471	9.7677	0.9588_n	1.2175	0.9901_n	
25.607	0.6498	9.7697	0.9614_n	1.2214	0.9763_n	
26.604	0.6526	9.7711	0.9641_n	1.2251	0.9620_n	
27.602	0.6553	9.7719	0.9664_n	1.2287	0.9471_n	
28.599	0.6580	9.7724	0.9681_n	1.2321	0.9316_n	
29.596	0.6608	9.7727	0.9689_n	1.2354	0.9153_n	
30.594	0.6635	9.7731	0.9688_n	1.2386	0.8983_n	
31.591	0.6662	9.7739	0.9681_n	1.2416	0.8804_n	
Sept. 1.588	0.6690	9.7754	0.9669_n	1.2444	0.8616_n	
2.585	0.6717	9.7774	0.9658_n	1.2471	0.8418_n	
3.583	0.6744	9.7800	0.9649_n	1.2497	0.8209_n	−6.621
4.580	0.6771	9.7831	0.9647_n	1.2521	0.7989_n	6.293
5.577	0.6799	9.7862	0.9654_n	1.2544	0.7755_n	5.963
6.575	0.6826	9.7892	0.9668_n	1.2566	0.7507_n	5.632
7.572	0.6853	9.7917	0.9689_n	1.2586	0.7242_n	5.299
8.569	0.6881	9.7937	0.9713_n	1.2605	0.6958_n	−4.964
9.566	0.6908	9.7951	0.9735_n	1.2623	0.6653_n	4.627
10.564	0.6935	9.7960	0.9753_n	1.2639	0.6323_n	4.288
11.561	0.6963	9.7965	0.9764_n	1.2655	0.5965_n	3.949
12.558	0.6990	9.7969	0.9766_n	1.2668	0.5572_n	3.608
13.555	0.7017	9.7975	0.9760_n	1.2681	0.5140_n	−3.265
14.553	0.7045	9.7983	0.9747_n	1.2692	0.4657_n	2.922
15.550	0.7072	9.7997	0.9732_n	1.2702	0.4113_n	2.578

$E = -0.''01$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	ι	log. A	log. B	log. C	log. D	D
Sept. 15.550	0.7072	9.7997	0.9732_n	1.2702	0.4113_n	−2.578
16.547	0.7099	9.8016	0.9717_n	1.2711	0.3488_n	2.233
17.544	0.7126	9.8039	0.9707_n	1.2718	0.2757_n	1.887
18.542	0.7154	9.8065	0.9704_n	1.2725	0.1874_n	1.540
19.539	0.7181	9.8090	0.9709_n	1.2729	0.0763_n	1.192
20.536	0.7208	9.8113	0.9722_n	1.2733	9.9265_n	−0.844
21.533	0.7236	9.8131	0.9740_n	1.2736	9.6954_n	0.496
22.531	0.7263	9.8144	0.9759_n	1.2737	9.1677_n	−0.147
23.528	0.7290	9.8151	0.9777_n	1.2737	9.3050	+0.202
24.525	0.7318	9.8154	0.9789_n	1.2735	9.7412	0.551
25.523	0.7345	9.8155	0.9793_n	1.2733	9.9544	+0.900
26.520	0.7372	9.8157	0.9788_n	1.2729	0.0967	1.249
27.517	0.7400	9.8161	0.9776_n	1.2724	0.2036	1.598
28.514	0.7427	9.8170	0.9759_n	1.2717	0.2894	1.947
29.512	0.7454	9.8185	0.9739_n	1.2709	0.3608	2.295
30.509	0.7481	9.8206	0.9721_n	1.2700	0.4221	+2.643
Okt. 1.506	0.7509	9.8231	0.9709_n	1.2690	0.4757	2.990
2.503	0.7536	9.8259	0.9704_n	1.2678	0.5233	3.337
3.501	0.7563	9.8286	0.9708_n	1.2665	0.5662	3.683
4.498	0.7591	9.8311	0.9718_n	1.2651	0.6051	4.028
5.495	0.7618	9.8331	0.9733_n	1.2635	0.6406	+4.372
6.493	0.7645	9.8346	0.9748_n	1.2618	0.6734	4.714
7.490	0.7673	9.8356	0.9761_n	1.2600	0.7038	5.056
8.487	0.7700	9.8362	0.9766_n	1.2580	0.7321	5.396
9.484	0.7727	9.8366	0.9764_n	1.2559	0.7586	5.736
10.482	0.7754	9.8371	0.9753_n	1.2537	0.7834	+6.073
11.479	0.7782	9.8379	0.9735_n	1.2513	0.8068	6.409
12.476	0.7809	9.8390	0.9713_n	1.2487	0.8288	
13.473	0.7836	9.8407	0.9689_n	1.2461	0.8497	
14.471	0.7864	9.8429	0.9669_n	1.2432	0.8696	
15.468	0.7891	9.8453	0.9655_n	1.2402	0.8884	
16.465	0.7918	9.8478	0.9649_n	1.2371	0.9063	
17.462	0.7946	9.8502	0.9651_n	1.2338	0.9235	
18.460	0.7973	9.8522	0.9660_n	1.2304	0.9398	
19.457	0.8000	9.8538	0.9672_n	1.2267	0.9555	
20.454	0.8028	9.8548	0.9684_n	1.2230	0.9704	
21.452	0.8055	9.8555	0.9692_n	1.2190	0.9848	
22.449	0.8082	9.8559	0.9692_n	1.2149	0.9986	

$E = -0.01$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D
Okt. 22.449	0.8082	9.8559	0.9692_n	1.2149	0.9986
23.446	0.8109	9.8562	0.9684_n	1.2106	1.0118
24.443	0.8137	9.8567	0.9668_n	1.2062	1.0246
25.441	0.8164	9.8576	0.9645_n	1.2015	1.0368
26.438	0.8191	9.8591	0.9618_n	1.1967	1.0486
27.435	0.8219	9.8611	0.9593_n	1.1917	1.0599
28.432	0.8246	9.8636	0.9571_n	1.1865	1.0709
29.430	0.8273	9.8663	0.9557_n	1.1810	1.0814
30.427	0.8301	9.8692	0.9551_n	1.1754	1.0916
31.424	0.8328	9.8719	0.9553_n	1.1696	1.1014
Nov. 1.422	0.8355	9.8743	0.9562_n	1.1636	1.1109
2.419	0.8382	9.8762	0.9573_n	1.1573	1.1201
3.416	0.8410	9.8777	0.9582_n	1.1508	1.1289
4.413	0.8437	9.8787	0.9586_n	1.1441	1.1375
5.411	0.8464	9.8796	0.9583_n	1.1371	1.1457
6.408	0.8492	9.8804	0.9570_n	1.1299	1.1537
7.405	0.8519	9.8814	0.9550_n	1.1224	1.1614
8.402	0.8546	9.8827	0.9524_n	1.1146	1.1688
9.400	0.8574	9.8845	0.9496_n	1.1066	1.1760
10.397	0.8601	9.8867	0.9469_n	1.0983	1.1829
11.394	0.8628	9.8892	0.9449_n	1.0896	1.1896
12.391	0.8656	9.8919	0.9436_n	1.0807	1.1961
13.389	0.8683	9.8946	0.9433_n	1.0714	1.2024
14.386	0.8710	9.8970	0.9437_n	1.0618	1.2084
15.383	0.8737	9.8990	0.9447_n	1.0518	1.2142
16.381	0.8765	9.9006	0.9458_n	1.0415	1.2198
17.378	0.8792	9.9018	0.9467_n	1.0307	1.2252
18.375	0.8819	9.9027	0.9470_n	1.0196	1.2304
19.372	0.8847	9.9034	0.9464_n	1.0080	1.2355
20.370	0.8874	9.9042	0.9450_n	0.9959	1.2403
21.367	0.8901	9.9053	0.9428_n	0.9834	1.2450
22.364	0.8929	9.9069	0.9401_n	0.9703	1.2494
23.361	0.8956	9.9089	0.9373_n	0.9567	1.2537
24.359	0.8983	9.9114	0.9349_n	0.9425	1.2578
25.356	0.9010	9.9142	0.9332_n	0.9277	1.2618
26.353	0.9038	9.9172	0.9324_n	0.9122	1.2656
27.351	0.9065	9.9201	0.9325_n	0.8960	1.2692
28.348	0.9092	9.9228	0.9333_n	0.8790	1.2726

$E = -0.01$

Konstanten für die Sterntage 1912,

gültig für die Sternzeitepochen $0^h\ 50^m.2$ Berlin.

Datum in Mittl. Zeit	t	log. A	log. B	log. C	log. D	C
Nov. 28.348	0.9092	9.9228	0.9333_n	0.8790	1.2726	
29.345	0.9120	9.9251	0.9347_n	0.8612	1.2759	
30.342	0.9147	9.9270	0.9360_n	0.8424	1.2791	
Dez. 1.340	0.9174	9.9285	0.9370_n	0.8227	1.2820	
2.337	0.9202	9.9297	0.9373_n	0.8019	1.2849	+6.338
3.334	0.9229	9.9308	0.9367_n	0.7799	1.2876	+6.024
4.331	0.9256	9.9320	0.9353_n	0.7565	1.2901	5.708
5.329	0.9284	9.9334	0.9332_n	0.7317	1.2924	5.391
6.326	0.9311	9.9352	0.9307_n	0.7052	1.2947	5.072
7.323	0.9338	9.9374	0.9283_n	0.6769	1.2968	4.752
8.321	0.9365	9.9399	0.9263_n	0.6464	1.2987	+4.430
9.318	0.9393	9.9426	0.9252_n	0.6135	1.3005	4.107
10.315	0.9420	9.9453	0.9250_n	0.5777	1.3021	3.782
11.312	0.9447	9.9479	0.9258_n	0.5385	1.3036	3.456
12.310	0.9475	9.9502	0.9273_n	0.4953	1.3050	3.128
13.307	0.9502	9.9521	0.9290_n	0.4472	1.3062	+2.800
14.304	0.9529	9.9535	0.9308_n	0.3928	1.3073	2.471
15.301	0.9557	9.9546	0.9320_n	0.3306	1.3083	2.141
16.299	0.9584	9.9556	0.9325_n	0.2577	1.3091	1.810
17.296	0.9611	9.9565	0.9320_n	0.1698	1.3098	1.478
18.293	0.9638	9.9576	0.9308_n	0.0593	1.3103	+1.146
19.290	0.9666	9.9590	0.9290_n	9.9106	1.3107	0.814
20.288	0.9693	9.9609	0.9269_n	9.6825	1.3110	0.481
21.285	0.9720	9.9631	0.9250_n	9.1716	1.3111	+0.148
22.282	0.9748	9.9657	0.9238_n	9.2659_n	1.3111	−0.185
23.280	0.9775	9.9685	0.9234_n	9.7139_n	1.3110	−0.517
24.277	0.9802	9.9713	0.9240_n	9.9295_n	1.3107	0.850
25.274	0.9830	9.9739	0.9254_n	0.0729_n	1.3103	1.183
26.271	0.9857	9.9762	0.9275_n	0.1804_n	1.3097	1.515
27.269	0.9884	9.9781	0.9298_n	0.2664_n	1.3090	1.847
28.266	0.9911	9.9797	0.9319_n	0.3381_n	1.3082	−2.178
29.263	0.9939	9.9809	0.9334_n	0.3995_n	1.3072	2.509
30.260	0.9966	9.9820	0.9341_n	0.4531_n	1.3061	2.838
31.258	0.9993	9.9831	0.9339_n	0.5007_n	1.3048	3.167
32.255	1.0021	9.9843	0.9329_n	0.5435_n	1.3035	3.495
33.252	1.0048	9.9859	0.9314_n	0.5823_n	1.3019	−3.822
34.250	1.0075	9.9877	0.9299_n	0.6178_n	1.3003	4.148
35.247	1.0103	9.9898	0.9286_n	0.6505_n	1.2984	4.472

$E = -0.01$

Konstanten für die mittleren Tage 1912,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12h Mittl. Zeit	f	log. g	G	12h Mittl. Zeit	f	log. g	G
1911 Dez. 29	+85.04	1.57712	348° 23.8	April 23	+ 99.96	1.64695	348° 37.3
1912 Jan. 2	85.76	1.58073	348 26.0	27	100.46	1.64894	348 45.0
6	86.48	1.58430	348 27.2	Mai 1	100.98	1.65099	348 53.0
10	87.18	1.58780	348 27.5	5	101.52	1.65312	349 1.1
14	87.86	1.59122	348 26.9	9	102.09	1.65532	349 9.4
18	+88.53	1.59456	348 25.5	13	+102.67	1.65761	349 17.6
22	89.18	1.59779	348 23.4	17	103.28	1.65997	349 25.6
26	89.81	1.60091	348 20.7	21	103.90	1.66239	349 33.3
30	90.42	1.60392	348 17.7	25	104.54	1.66489	349 40.6
Febr. 3	91.00	1.60680	348 14.4	29	105.20	1.66745	349 47.6
7	+91.56	1.60954	348 11.0	Juni 2	+105.87	1.67005	349 54.0
11	92.10	1.61216	348 7.5	6	106.55	1.67270	349 59.9
15	92.61	1.61466	348 4.2	10	107.24	1.67540	350 5.1
19	93.10	1.61704	348 1.0	14	107.94	1.67812	350 9.7
23	93.57	1.61931	347 58.2	18	108.64	1.68085	350 13.6
27	+94.03	1.62147	347 55.9	22	+109.35	1.68359	350 16.7
März 2	94.47	1.62354	347 54.0	26	110.06	1.68633	350 19.1
6	94.89	1.62551	347 52.7	30	110.76	1.68905	350 20.9
10	95.30	1.62740	347 52.2	Juli 4	111.45	1.69175	350 21.9
14	95.70	1.62924	347 52.5	8	112.14	1.69441	350 22.3
18	+96.10	1.63102	347 53.5	12	+112.81	1.69702	350 22.1
22	96.50	1.63276	347 55.3	16	113.48	1.69957	350 21.3
26	96.90	1.63448	347 58.0	20	114.12	1.70206	350 20.1
30	97.30	1.63619	348 1.5	24	114.75	1.70448	350 18.4
April 3	97.71	1.63791	348 5.7	28	115.37	1.70684	350 16.4
7	+98.13	1.63964	348 10.7	Aug. 1	+115.96	1.70912	350 14.0
11	98.56	1.64139	348 16.5	5	116.53	1.71131	350 11.4
15	99.01	1.64318	348 22.9	9	117.08	1.71342	350 8.8
19	99.48	1.64503	348 29.9	13	117.62	1.71545	350 6.1
23	99.96	1.64695	348 37.3	17	118.13	1.71740	350 3.4

Konstanten für die mittleren Tage 1912,

zur Reduktion von dem Mittl. Äquin. 1910.0 auf das jedesmalige wahre Äquinoktium.

12^h Mittl. Zeit	f	log. g	G	12^h Mittl. Zeit	f	log. g	G
	s		° ′		s		° ′
Aug. 17	+118.13	1.71740	350 3.4	Okt. 24	+125.49	1.74316	350 26.1
21	118.62	1.71926	350 0.9	28	125.99	1.74476	350 32.3
25	119.09	1.72104	349 58.7	Nov. 1	126.51	1.74642	350 38.8
29	119.55	1.72275	349 56.8	5	127.06	1.74814	350 45.5
Sept. 2	119.99	1.72439	349 55.2	9	127.63	1.74994	350 52.2
6	+120.42	1.72596	349 54.0	13	+128.22	1.75181	350 58.9
10	120.84	1.72747	349 53.4	17	128.83	1.75375	351 5.5
14	121.25	1.72893	349 53.3	21	129.47	1.75577	351 12.0
18	121.65	1.73036	349 53.8	25	130.12	1.75786	351 18.2
22	122.05	1.73176	349 54.9	29	130.80	1.76000	351 24.0
26	+122.45	1.73315	349 56.6	Dez. 3	+131.50	1.76219	351 29.4
30	122.85	1.73452	349 59.0	7	132.21	1.76442	351 34.3
Okt. 4	123.26	1.73590	350 2.1	11	132.92	1.76670	351 38.7
8	123.68	1.73729	350 5.8	15	133.65	1.76901	351 42.4
12	124.11	1.73870	350 10.1	19	134.39	1.77133	351 45.5
16	+124.55	1.74014	350 15.0	23	+135.13	1.77365	351 47.9
20	125.01	1.74162	350 20.3	27	135.86	1.77597	351 49.7
24	125.49	1.74316	350 26.1	31	136.59	1.77828	351 50.8

Red. in $\alpha = f + g \sin(G + \alpha) \operatorname{tg} \delta$

Red. in $\delta = g \cos(G + \alpha)$

Im Jahre 1912 werden zwei Sonnen- und zwei Mondfinsternisse stattfinden, von denen in unseren Gegenden die erste Mondfinsternis und die erste Sonnenfinsternis sichtbar sind.

I. Partielle Mondfinsternis 1912 April 1,

sichtbar in Berlin.

Elemente der Finsternis

nach mittlerer Berliner Zeit.

☍ in AR	April 1	10h 13m 46.5s
☾ AR.		12 43 19.6
☾ Dekl.		−3° 39′ 6.9″
⊙ »		+4 39 39.8
☾ stündliche Bewegung in AR.		30 32.7
⊙ » » » »		2 16.5
☾ » » » Dekl.		−16 20.7
⊙ » » » »		+ 57.8
☾ Äquatorial-Horizontal-Parallaxe		58 21.3
⊙ » » »		8.8
☾ Halbmesser		15 54.1
⊙ »		15 59.8

Anfang der Finsternis	April 1	10h 19.4m	mittl. Berl. Zt.
Mitte der Finsternis		11 7.9	» » »
Ende der Finsternis		11 56.4	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

39° 33′	östl. Länge von Greenwich	3° 41′	südl. Br.
27 48	» » » »	3 54	» »
16 3	» » » »	4 7	» »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 183°
» » Austritts » » » = 235

Größe der Verfinsterung in Teilen des Monddurchmessers = 0.188

Die Finsternis wird demnach in der westlichen Hälfte Australiens, in Asien, dem indischen Ozean, Europa, Afrika, dem atlantischen Ozean und in Südamerika sichtbar sein.

II. Ringförmige Sonnenfinsternis 1912 April 16—17, sichtbar in Berlin.

Elemente der Finsternis
nach wahrer Berliner Zeit τ.

	23ʰ 14ᵐ 50ˢ.9	0ʰ 26ᵐ 51ˢ.6	1ʰ 38ᵐ 52ˢ.3	2ʰ 50ᵐ 53ˢ.0	4ʰ 2ᵐ 53ˢ.7
τ	348°.7120	6°.7150	24°.7179	42°.7208	60°.7237
λ☾	26° 20′ 52″.5	27° 1′ 14″.0	27° 41′ 38″.0	28° 22′ 4″.7	29° 2′ 33″.8
β☾	+ 0 26 25.7	+ 0 30 8.4	+ 0 33 51.1	+ 0 37 33.7	+ 0 41 16.3
π☾	0 57 38.4	0 57 40.2	0 57 42.0	0 57 43.8	0 57 45.5
Δα′☉	— 0 0 7.49	— 0 0 2.28	+ 0 0 2.93	+ 0 0 8.14	+ 0 0 13.36
δ′☉	+10 25 19.1	+10 26 19.9	+10 27 20.7	+10 28 21.5	+10 29 22.3
N'	63 14 10.1	63 14 51.4	63 15 33.1	63 16 15.1	63 16 57.4
γ	+0.527933	+0.527971	+0.528009	+0.528048	+0.528088
u'_a	+0.550183	+0.550051	+0.549887	+0.549691	+0.549463
u'_i	—0.003769	—0.003638	—0.003475	—0.003280	—0.003052
log sin f_a	7.668005	7.667998	7.667991	7.667985	7.667978
log sin f_i	7.665834_n	7.665827_n	7.665821_n	7.665814_n	7.665808_n
log n	9.736442	9.736461	9.736459	9.736440	9.736408
μ	7°.1048	7°.1064	7°.1072	7°.1073	7°.1069
k	63° 42′ 42″.8	63° 43′ 28″.8	63° 44′ 15″.2	63° 45′ 1″.8	63° 45′ 48″.6
g	28 34 52.4	28 34 34.6	28 34 16.7	28 33 58.6	28 33 40.0
K	84 47 13.6	84 46 53.0	84 46 32.5	84 46 12.1	84 45 51.8
G	19 43 53.9	19 46 11.8	19 48 29.9	19 50 48.2	19 53 6.8

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis überhaupt . .	21ʰ 47ᵐ.7	316° 50′	— 6° 53′
Beginn der ringförmigen Finsternis .	22 54.1	298 3	+ 4 48
Beginn der zentralen Finsternis . .	22 54.6	298 11	+ 4 59
Zentrale Finsternis im wahren Mittag	0 57.3	358 58	+46 58
Ende der zentralen Finsternis . . .	2 1.2	90 40	+57 8
Ende der ringförmigen Finsternis . .	2 1.7	90 56	+56 56
Ende der Finsternis überhaupt . . .	3 8.2	68 18	+45 35

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze		Südl. Grenze		Östl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
162° 35′	+79° 4′	309° 59′	−27° 38′	73° 8′	+25° 11′
232 18	69 40	325 17	23 43	80 10	27 8
248 3	61 18	337 54	18 21	87 27	34 11
264 14	44 22	348 42	11 28	94 57	44 10
269 58	34 38	357 34	− 3 33	103 45	55 24
274 20	25 32	4 50	+ 4 26	116 43	66 36
278 17	16 34	11 13	11 34	143 52	+76 10
282 8	+ 7 37	17 28	17 23		
286 4	− 1 10	24 13	21 51		
290 16	9 31	31 53	25 1		
294 49	17 0	40 43	26 56		
299 45	23 0	50 54	27 34		
304 56	26 49	62 23	26 51		
309 59	−27 38	73 8	+25 11		

Die nördliche Grenzkurve ist imaginär.

Kurve der zentralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der ringförmigen bezw. totalen Verfinsterung
22ʰ 54ᵐ.6	298° 11′	+ 4° 59′	
22 59.7	313 21	9 16	31ˢ
23 14.4	324 43	15 18	17
23 37.1	334 3	22 58	3
0 4.7	342 7	31 28	6
0 32.8	350 6	39 46	8
0 57.3	358 58	46 58	5
1 16.7	9 7	52 35	2
1 31.4	20 28	56 34	10
1 42.2	32 46	59 8	17
1 50.1	45 46	60 27	24
1 55.8	59 20	60 38	31
1 59.6	73 24	59 44	37
2 1.2	90 40	+57 8	

Die Finsternis ist demnach sichtbar in der östlichen Hälfte Nordamerikas, im nordöstlichen Teil von Südamerika, im atlantischen Ozean, im nordwestlichen Teile Afrikas, in Europa und in der westlichen Hälfte Asiens.

In der folgenden Uebersicht über die näheren Umstände der Finsternis im mittleren Europa ist als Einheit von $\Delta\lambda$ die Zeitminute und die östliche Richtung positiv zu nehmen. Die Phase ist in Teilen des Sonnendurchmessers ausgedrückt.

Polhöhe	Mittlere Ortszeit des Eintrittes			Positions-Winkel	Mittlere Ortszeit des Austrittes			Positions-Winkel	Größte Phase
	Länge von Berlin: — 30ᵐ								
+48°	23ʰ 16.2ᵐ	14	+ 1.35ᵐ Δλ	235.7°	2ʰ 0.7ᵐ	5	+ 1.31ᵐ Δλ	50.1°	0.94
49	17.6	15	+ 1.34 »	234.7	1.2	4	+ 1.31 »	51.7	0.96
50	19.1	14	+ 1.32 »	233.8	1.6	3	+ 1.30 »	53.2	0.97
51	20.5	14	+ 1.31 »	232.8	1.9	2	+ 1.30 »	54.8	0.98
52	21.9	14	+ 1.30 »	231.9	2.1	2	+ 1.29 »	56.3	0.97
53	23.3	14	+ 1.29 »	230.9	2.3	0	+ 1.29 »	57.8	0.96
54	24.7	14	+ 1.28 »	230.0	2.3	0	+ 1.28 »	59.3	0.94
55	26.1	14	+ 1.26 »	229.0	2.3	1	+ 1.28 »	60.8	0.91
56	27.5	14	+ 1.25 »	228.1	2.2	2	+ 1.27 »	62.2	0.89
57	28.9	13	+ 1.24 »	227.2	2.0	2	+ 1.27 »	63.7	0.87
58	30.2		+ 1.23 »	226.3	1.8		+ 1.26 »	65.1	0.84
	Länge von Berlin: — 15ᵐ								
+48°	23ʰ 36.6ᵐ	12	+ 1.37ᵐ Δλ	238.7°	2ʰ 20.2ᵐ	5	+ 1.29ᵐ Δλ	48.4°	0.89
49	37.8	13	+ 1.36 »	237.6	20.7	3	+ 1.29 »	50.0	0.92
50	39.1	12	+ 1.34 »	236.6	21.0	3	+ 1.29 »	51.6	0.94
51	40.3	12	+ 1.33 »	235.5	21.3	1	+ 1.28 »	53.2	0.96
52	41.5	13	+ 1.32 »	234.5	21.4	1	+ 1.28 »	54.7	0.97
53	42.8	12	+ 1.30 »	233.5	21.5	0	+ 1.27 »	56.3	0.98
54	44.0	12	+ 1.29 »	232.5	21.5	1	+ 1.27 »	57.8	0.97
55	45.2	12	+ 1.28 »	231.5	21.4	2	+ 1.26 »	59.3	0.95
56	46.4	12	+ 1.27 »	230.5	21.2	2	+ 1.26 »	60.8	0.93
57	47.6	12	+ 1.25 »	229.5	21.0	4	+ 1.26 »	62.3	0.90
58	48.8		+ 1.24 »	228.5	20.6		+ 1.25 »	63.8	0.87
	Länge von Berlin: 0ᵐ								
+48°	23ʰ 57.3ᵐ	10	+ 1.39ᵐ Δλ	241.6°	2ʰ 39.5ᵐ	4	+ 1.27ᵐ Δλ	46.8°	0.84
49	58.3	10	+ 1.38 »	240.4	39.9	3	+ 1.27 »	48.5	0.87
50	23 59.3	11	+ 1.36 »	239.3	40.2	2	+ 1.27 »	50.1	0.89
51	0 0.4	10	+ 1.35 »	238.2	40.4	1	+ 1.26 »	51.7	0.92
52	1.4	10	+ 1.33 »	237.1	40.5	0	+ 1.26 »	53.3	0.95
53	2.4	10	+ 1.32 »	236.0	40.5	1	+ 1.26 »	54.9	0.97
54	3.4	11	+ 1.30 »	234.9	40.4	2	+ 1.25 »	56.5	0.98
55	4.5	10	+ 1.29 »	233.8	40.2	2	+ 1.25 »	58.1	0.97
56	5.5	10	+ 1.28 »	232.7	40.0	3	+ 1.24 »	59.6	0.96
57	6.5	10	+ 1.26 »	231.6	39.7	5	+ 1.24 »	61.1	0.94
58	7.5		+ 1.25 »	230.6	39.2		+ 1.23 »	62.6	0.91

Polhöhe	Mittlere Ortszeit des Eintrittes			Positions-Winkel	Mittlere Ortszeit des Austrittes			Positions-Winkel	Größte Phase
Länge von Berlin: +15^m									
+48°	0^h 18^m.3	8	+1^m.41 Δλ	244°.5	2^h 58^m.5	3	+1^m.25 Δλ	45°.4	0.80
49	19.1	8	+1.39 »	243.2	58.8	2	+1.25 »	47.1	0.83
50	19.9	8	+1.38 »	242.0	59.0	2	+1.25 »	48.8	0.85
51	20.7	8	+1.36 »	240.8	59.2	0	+1.24 »	50.5	0.88
52	21.5	8	+1.35 »	239.6	59.2	0	+1.24 »	52.2	0.91
53	22.3	8	+1.33 »	238.4	59.2	2	+1.24 »	53.8	0.94
54	23.1	8	+1.32 »	237.2	59.0	2	+1.23 »	55.4	0.96
55	23.9	8	+1.30 »	236.0	58.8	3	+1.23 »	57.0	0.97
56	24.7	8	+1.29 »	234.9	58.5	4	+1.22 »	58.5	0.97
57	25.5	8	+1.27 »	233.7	58.1	5	+1.22 »	60.1	0.96
58	26.3		+1.26 »	232.6	57.6		+1.21 »	61.6	0.94
Länge von Berlin: +30^m									
+48°	0^h 39^m.6	5	+1^m.43 Δλ	247°.2	3^h 17^m.1	3	+1^m.23 Δλ	44°.2	0.77
49	40.1	5	+1.41 »	245.9	17.4	2	+1.23 »	46.0	0.79
50	40.6	6	+1.39 »	244.6	17.6	1	+1.23 »	47.7	0.82
51	41.2	6	+1.38 »	243.3	17.7	0	+1.22 »	49.4	0.85
52	41.8	5	+1.36 »	242.0	17.7	1	+1.22 »	51.1	0.88
53	42.3	6	+1.34 »	240.7	17.6	2	+1.22 »	52.8	0.90
54	42.9	6	+1.33 »	239.5	17.4	3	+1.21 »	54.4	0.93
55	43.5	6	+1.32 »	238.2	17.1	4	+1.21 »	56.0	0.95
56	44.1	6	+1.30 »	237.0	16.7	5	+1.21 »	57.6	0.96
57	44.7	6	+1.29 »	235.8	16.2	5	+1.20 »	59.2	0.97
58	45.3		+1.27 »	234.6	15.7		+1.20 »	60.8	0.96
Berlin									
—	0^h 1^m.9		—	236°.5	2^h 40^m.5		—	54°.1	0.96

III. Partielle Mondfinsternis 1912 September 25—26,

unsichtbar in Berlin.

Elemente der Finsternis

nach mittlerer Berliner Zeit.

☍ in AR.	Sept. 25	23^h 38^m 24^s.4
☾ AR.		0 10 52.8
☾ Dekl.		+0° 11′ 49″.7
☉ »		—1 10 46.5
☾ stündliche Bewegung in AR. .		27 14.8
☉ » » » » .		2 15.0
☾ » » » Dekl. .		+14 52.3
☉ » » » » .		— 58.4
☾ Äquatorial-Horizontal-Parallaxe		55 15.3
☉ » » »		8.8
☾ Halbmesser		15 3.4
☉ »		15 57.6

Anfang der Finsternis	Sept. 25	23^h 57^m.0	mittl. Berl. Zt.
Mitte der Finsternis	26	0 38.5	» » »
Ende der Finsternis		1 20.0	» » »

Der Mond steht um diese Zeiten im Zenit der Orte, deren geographische Lage bezüglich ist:

192° 8′ östl. Länge von Greenwich	0° 16′ nördl. Br.
182 2 » » » »	0 27 » »
171 56 » » » »	0 37 » »

Positionswinkel des Eintritts vom Nordpunkt gezählt = 352°
» » Austritts » » » = 310

Größe der Verfinsterung in Teilen des Monddurchmessers = 0.122

Die Finsternis wird demnach in Nordamerika, dem großen Ozean, in Australien und in der östlichen Hälfte Asiens sichtbar sein.

IV. Totale Sonnenfinsternis 1912 Oktober 9—10,

unsichtbar in Berlin.

Elemente der Finsternis

nach wahrer Berliner Zeit τ.

	$0^h 6^m 42^s.1$	$1^h 18^m 42^s.8$	$2^h 30^m 43^s.6$	$3^h 42^m 44^s.4$	$4^h 54^m 45^s.2$
τ	1°.6752	19°.6785	37°.6818	55°.6851	73°.6883
λ☾	195° 17′ 40″.5	196° 0′ 19″.4	196° 42′ 55″.8	197° 25′ 29″.9	198° 8′ 1″.8
β☾	−0 15 54.3	−0 19 50.5	−0 23 46.2	−0 27 41.6	−0 31 36.5
π☾	0 59 18.4	0 59 16.8	0 59 15.1	0 59 13.4	0 59 11.7
$\Delta\alpha'$☉	−0 0 13.15	−0 0 7.88	−0 0 2.61	+0 0 2.66	+0 0 7.94
δ'☉	−6 35 37.9	−6 36 43.4	−6 37 48.9	−6 38 54.4	−6 39 59.9
N'	118 14 18.0	118 13 50.9	118 13 24.2	118 12 57.4	118 12 30.2
γ	−0.415350	−0.415345	−0.415340	−0.415336	−0.415333
u'_a	+0.543947	+0.544137	+0.544294	+0.544417	+0.544505
u'_i	+0.002436	+0.002246	+0.002090	+0.001968	+0.001881
$\log\sin f_a$	7.670625	7.670632	7.670639	7.670645	7.670652
$\log\sin f_i$	7.668454_n	7.668461_n	7.668468_n	7.668475_n	7.668481_n
$\log n$	9.749114	9.749122	9.749120	9.749106	9.749079
μ	40°.6858	40°.6862	40°.6867	40°.6872	40°.6879
k	118° 2′ 6″.0	118° 1′ 35″.0	118° 1′ 4″.6	118° 0′ 34″.0	118° 0′ 2″.8
g	28 56 10.8	28 55 57.9	28 55 45.5	28 55 33.2	28 55 20.5
K	86 28 15.6	86 27 44.7	86 27 13.9	86 26 43.1	86 26 12.2
G	192 4 8.2	192 6 17.3	192 8 26.4	192 10 35.6	192 12 45.0

	Mittl. Zeit Berlin	O. L. Gr.	Breite
Beginn der Finsternis überhaupt . .	$23^h 50^m.8$	283° 7′	+12° 41′
Beginn der totalen Finsternis . . .	0 52.3	267 14	+ 3 46
Beginn der zentralen Finsternis . .	0 52.6	266 54	+ 3 45
Zentrale Finsternis im wahren Mittag	2 53.6	326 45	−34 58
Ende der zentralen Finsternis . . .	4 6.8	48 3	−52 23
Ende der totalen Finsternis	4 7.0	47 32	−52 23
Ende der Finsternis überhaupt . . .	5 8.6	30 28	−43 28

Grenzkurven für die Sichtbarkeit der Finsternis.

Westl. Grenze.		Südl. Grenze.		Östl. Grenze.		Nördl. Grenze	
O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.	O. L. Gr.	Br.
274° 4′	+35° 34′	242° 39′	−45° 31′	207° 0′	−75° 48′	38° 29′	−20° 47′
264 56	30 34	249 28	46 27	141 23	83 3	22 27	21 35
259 43	22 19	257 20	50 13	80 55	73 41	11 4	20 31
256 30	15 0	263 15	57 47	69 58	64 33	1 20	17 51
254 29	9 33	263 10	65 38	65 36	58 25	353 3	13 40
253 9	5 30	257 33	71 20	63 9	54 13	345 51	7 58
252 3	+ 1 55	246 21	75 7	61 18	50 41	339 3	− 0 45
250 48	− 2 23	235 53	76 33	59 19	46 41	331 44	+ 7 38
249 4	8 43	207 0	−75 48	56 41	41 17	322 58	16 14
246 35	18 25			52 59	34 1	312 12	23 49
243 15	32 26			47 36	25 47	299 31	29 42
242 39	−45 31			38 29	−20 47	285 14	33 42
						274 4	+35 34

Kurve der zentralen Verfinsterung.

Mittl. Berl. Zeit	O. L. Gr.	Br.	Dauer der totalen Verfinsterung
0h 52.6m	266° 54′	+ 3° 45′	
0 56.4	281 3	+ 1 0	0m 46s
1 8.8	292 58	− 3 47	1 9
1 29.3	302 51	10 25	1 32
1 56.1	311 9	18 24	1 50
2 25.6	318 45	26 55	1 59
2 53.6	326 45	34 58	1 56
3 17.1	335 53	41 47	1 44
3 35.1	346 23	47 0	1 29
3 48.2	358 7	50 38	1 13
3 57.3	10 51	52 49	0 58
4 3.2	24 22	53 41	0 45
4 6.3	38 35	53 18	0 33
4 6.8	48 3	−52 23	

Die Finsternis wird demnach in Mittel- und Südamerika, in Südafrika, in der südlichen Hälfte des atlantischen Ozeans und in den südlichen Polargegenden zu sehen sein.

Verzeichnis von Fixsternen, welche im Jahre 1912 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1912.0	Mittl. Dekl. 1912.0
			h m s	° ′ ″
1	ε Piscium	4.2	0 58 22.46	+ 7 24 59.7
2	ζ^1 Piscium	4.8	1 9 7.94	+ 7 6 36.9
3	π Arietis	5.5	2 44 22.75	+17 5 55.8
4	ε Arietis	4.4	2 54 10.61	+20 59 20.1
5	δ Arietis	4.3	3 6 35.64	+19 23 40.2
6	ζ Arietis	4.5	3 9 50.41	+20 43 8.0
7	τ^1 Arietis	5.0	3 16 8.63	+20 49 49.5
8	τ^2 Arietis	5.4	3 17 41.19	+20 25 40.8
9	17 Tauri	4.0	3 39 38.81	+23 50 14.5
10	19 Tauri	4.5	3 39 57.97	+24 11 31.2
11	20 Tauri	4.0	3 40 35.25	+24 5 36.5
12	23 Tauri	4.8	3 41 6.02	+23 40 29.4
13	η Tauri	3.0	3 42 15.03	+23 50 1.3
14	27 Tauri	3.8	3 43 55.59	+23 47 6.1
15	χ Tauri	5.5	4 17 13.52	+25 25 20.5
16	β Tauri	1.8	5 20 43.68	+28 32 2.3
17	136 Tauri	5.3	5 47 47.80	+27 35 32.1
18	χ Aurigae	4.6	6 9 46.30	+29 31 53.0
19	49 Aurigae	5.5	6 29 39.57	+28 5 30.1
20	ι Geminorum . .	3.8	7 20 15.79	+27 58 25.7
21	b^1 Geminorum . .	5.2	7 23 51.60	+28 18 1.1
22	b^2 Geminorum . .	5.0	7 24 20.46	+28 5 54.3
23	υ Geminorum . .	4.4	7 30 30.14	+27 5 31.6
24	φ Geminorum . .	5.0	7 48 6.85	+26 59 39.9
25	γ Cancri	4.4	8 38 11.77	+21 47 8.2
26	ξ Cancri	5.0	9 4 18.17	+22 24 7.2
27	η Leonis	3.4	10 2 32.22	+17 11 31.8
28	l Leonis	5.4	10 44 37.98	+11 0 39.9
29	χ Leonis	4.8	11 0 28.73	+ 7 48 43.1

Verzeichnis von Fixsternen, welche im Jahre 1912 vom Monde bedeckt werden.

Nr.	Name	Gr.	Mittl. AR. 1912.0	Mittl. Dekl. 1912.0
			h m s	° ′ ″
30	σ Leonis	4.1	11 16 35.97	+ 6 30 42.3
31	β Virginis	3.5	11 46 6.68	+ 2 15 38.3
32	η Virginis	3.7	12 15 24.19	− 0 10 40.2
33	ϑ Virginis	4.3	13 5 23.53	− 5 4 10.0
34	α Virginis	1.1	13 20 33.30	−10 42 8.3
35	ι Librae	4.6	15 7 12.12	−19 27 33.6
36	*A* Scorpii	5.0	15 48 19.54	−25 3 53.7
37	σ Scorpii	3.1	16 15 50.20	−25 22 56.9
38	α Scorpii	1.2	16 24 0.54	−26 14 15.1
39	22 Scorpii	5.0	16 24 51.55	−24 55 19.4
40	*A* Ophiuchi	5.0	17 9 56.02	−26 28 28.3
41	*X* Sagittarii	var.	17 42 1.26	−27 47 53.0
42	γ^1 Sagittarii	var.	17 59 23.93	−29 35 5.1
43	B. A. C. 6127 . .	5.0	18 2 30.56	−28 28 3.0
44	φ Sagittarii	3.6	18 40 9.52	−27 4 55.3
45	τ Sagittarii	3.7	19 1 26.84	−27 47 59.5
46	ω Sagittarii	5.0	19 50 27.04	−26 32 1.0
47	*b* Sagittarii	5.0	19 51 32.93	−27 24 14.3
48	*A* Sagittarii	5.0	19 53 35.58	−26 26 3.8
49	33 Capricorni . . .	5.5	21 19 10.27	−21 13 34.7
50	ε Capricorni . . .	4.7	21 32 9.30	−19 51 39.0
51	κ Capricorni . . .	5.2	21 37 44.77	−19 16 4.2
52	δ Capricorni . . .	2.8	21 42 11.13	−16 31 37.5
53	φ Aquarii	4.3	23 9 45.91	− 6 31 24.9
54	ψ^1 Aquarii	4.7	23 11 16.94	− 9 34 1.9
55	χ Aquarii	5.3	23 12 17.30	− 8 12 23.7
56	ψ^2 Aquarii	4.7	23 13 19.86	− 9 39 46.7
57	27 Piscium	5.1	23 54 10.07	− 4 2 39.2
58	29 Piscium	5.3	23 57 18.84	− 3 31 2.4

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Jan.					Jan.			
	d h m					d h m			
15	1 17 20.6	−0.8683	5946	+1470	20	31 21 32.1	−0.7610	6142	−0785
17	3 2 4.1	+0.1485	6201	+0409	21	31 22 48.9	−1.1841	6138	−0830
19	3 16 35.4	−0.1309	6228	−0124	22	31 22 59.1	−1.0002	6137	−0835
20	4 10 10.6	−0.7995	6184	−0762					
21	4 11 26.4	−1.2173	6180	−0806		Febr.			
22	4 11 36.6	−1.0342	6179	−0812	23	1 1 10.8	−0.2047	6129	−0911
23	4 13 46.8	−0.2366	6166	−0888	24	1 7 29.6	−0.7508	6101	−1123
24	4 20 2.1	−0.7629	6124	−1098	26	2 11 52.0	−0.6517	5884	−1940
26	6 0 23.8	−0.5840	5861	−1904	27	3 11 18.5	−0.6622	5660	−2410
27	7 0 7.7	−0.5266	5605	−2360	28	4 5 27.9	+0.8736	5494	−2641
28	7 18 40.4	+1.0775	5419	−2580	32	6 0 1.9	+0.4529	5220	−2793
32	9 14 31.2	+0.7504	5129	−2729	33	7 0 53.6	−1.3326	5152	−2680
33	10 16 12.6	−1.0310	5065	−2628	35	9 13 38.7	−0.4388	5228	−1943
35	13 6 34.5	−0.1296	5188	−1935	37	10 22 20.0	+0.6538	5342	−1314
37	14 15 43.1	+0.9312	5335	−1324	38	11 2 8.1	+1.1102	5356	−1232
39	14 19 57.0	−0.1184	5350	−1235	39	11 2 31.7	−0.3837	5356	−1223
40	15 16 44.3	−0.4887	5426	−0766	40	11 23 11.5	−0.7202	5418	−0748
41	16 7 15.9	+0.1218	5462	−0414	41	12 13 40.8	−0.0866	5445	−0395
43	16 16 28.4	+0.5900	5472	−0186	43	12 22 52.7	+0.3975	5455	−0166
54	22 22 17.7	+0.9254	4978	+2512	44	13 15 46.0	−1.0632	5452	+0258
55	22 22 50.3	−0.4190	4976	+2516	45	14 1 21.5	+0.0957	5442	+0495
56	22 23 24.1	+1.3077	4974	+2519	46	14 23 44.1	+0.3990	5384	+1025
57	23 21 34.0	+0.9274	4960	+2628	48	15 1 11.4	+0.4404	5380	+1058
58	23 23 16.4	+0.8076	4961	+2632	57	20 3 20.1	+1.1237	4986	+2660
2	25 13 34.5	−0.4135	5070	+2620	58	20 5 1.9	+1.0076	4986	+2665
3	27 11 59.0	+0.5574	5422	+2215	2	21 19 12.9	−0.1582	5074	+2636
5	27 21 51.7	+0.3096	5524	+2059	3	23 18 1.4	+0.8372	5379	+2200
6	27 23 16.5	−0.7573	5539	+2034	5	24 4 5.2	+0.5832	5468	+2038
7	28 1 59.9	−0.3232	5569	+1985	6	24 5 31.7	−0.4968	5480	+2012
8	28 2 39.7	+0.2191	5576	+1973	7	24 8 18.6	−0.0591	5505	+1962
12	28 12 30.8	−1.2380	5682	+1773	8	24 8 59.3	+0.4894	5511	+1950
13	28 12 59.3	−1.3152	5689	+1763	9	24 18 27.5	−1.2697	5600	+1759
14	28 13 40.8	−1.1440	5695	+1748	12	24 19 4.5	−0.9942	5605	+1746
♂	28 14 51.8	+0.6239	5594	+1698	13	24 19 33.7	−1.0728	5610	+1735
15	29 3 2.5	−0.6681	5834	+1423	14	24 20 16.2	−0.9000	5615	+1720
16	30 3 0.2	−1.1873	6051	+0709	15	25 10 0.3	−0.4319	5744	+1394
17	30 12 47.3	+0.2826	6110	+0378	16	26 10 44.9	−0.9925	5936	+0684
19	31 3 39.3	−0.0394	6158	−0148	17	26 20 52.9	+0.4884	5991	+0357

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR. d	h	m	q	p'	q'
	Febr.					
19	27	12	17.3	+0.1362	6039	−0163
20	28	6	48.2	−0.6301	6028	−0790
21	28	8	7.5	−1.0628	6024	−0833
22	28	8	18.2	−0.8762	6023	−0840
23	28	10	34.3	−0.0721	6017	−0914
24	28	17	5.6	−0.6390	5992	−1123
26	29	22	15.6	−0.5989	5811	−1941
	März					
27	1	22	7.0	−0.6643	5621	−2420
28	2	16	25.0	+0.8300	5485	−2660
30	3	6	54.7	+1.3913	5391	−2778
32	4	10	43.5	+0.3049	5265	−2836
35	7	22	20.6	−0.6733	5295	−1971
37	9	6	18.4	+0.4118	5388	−1323
38	9	10	2.2	+0.8658	5398	−1239
39	9	10	25.4	−0.6150	5399	−1230
40	10	6	46.0	−0.9400	5444	−0747
41	10	21	5.6	−0.3007	5459	−0389
43	11	6	12.9	+0.1887	5460	−0158
44	11	23	0.9	−1.2520	5445	+0267
45	12	8	34.8	−0.0875	5429	+0505
46	13	6	56.8	+0.2401	5364	+1035
47	13	7	27.3	+1.2570	5361	+1046
48	13	8	24.1	+0.2830	5359	+1068
49	15	1	23.8	+0.6434	5191	+1876
50	15	7	52.2	+0.3904	5166	+1982
51	15	10	40.7	+0.3019	5155	+2025
3	21	23	37.1	+0.9731	5412	+2222
5	22	9	35.6	+0.7255	5492	+2053
6	22	11	1.6	−0.3528	5505	+2028
7	22	13	47.4	+0.0853	5529	+1976
8	22	14	27.8	+0.6336	5534	+1962
9	22	23	53.6	−1.1235	5612	+1767
11	23	0	17.5	−1.3173	5617	+1759
12	23	0	30.5	−0.8476	5617	+1754
13	23	0	59.7	−0.9266	5622	+1744
14	23	1	42.1	−0.7537	5629	+1727

Nr.	Zeit der Konj. in AR. d	h	m	q	p'	q'
	März					
15	23	15	26.5	−0.2851	5739	+1394
16	24	16	22.8	−0.8550	5895	+0678
17	25	2	39.8	+0.6343	5934	+0351
18	25	10	55.6	−1.1575	5957	+0081
19	25	18	22.4	+0.2727	5964	−0165
20	26	13	21.6	−0.5135	5933	−0785
21	26	14	43.2	−0.9528	5929	−0828
22	26	14	54.1	−0.7640	5930	−0834
23	26	17	14.2	+0.0495	5921	−0907
24	26	23	57.1	−0.5299	5893	−1113
26	28	6	3.3	−0.5146	5709	−1917
27	29	6	40.4	−0.6064	5530	−2392
28	30	1	29.3	+0.8840	5412	−2638
30	30	16	19.3	+1.4300	5334	−2762
32	31	20	34.0	+0.2954	5242	−2836
	April					
35	4	7	46.2	−0.7535	5348	−1996
37	5	15	11.7	+0.3159	5445	−1338
38	5	18	51.7	+0.7668	5454	−1253
39	5	19	14.5	−0.7052	5454	−1244
40	6	15	15.6	−1.0295	5489	−0753
41	7	5	23.4	−0.3934	5495	−0390
43	7	14	24.4	+0.0944	5492	−0157
45	8	16	33.8	−0.1759	5436	+0509
46	9	14	52.3	+0.1569	5355	+1037
47	9	15	22.8	+1.1730	5352	+1048
48	9	16	19.7	+0.2004	5347	+1069
49	11	9	27.2	+0.5777	5162	+1871
50	11	15	57.7	+0.3276	5136	+1975
51	11	18	47.1	+0.2403	5125	+2019
54	13	19	35.1	+1.0272	5010	+2573
55	13	20	7.2	−0.3019	5010	+2578
56	13	20	40.5	+1.4112	5009	+2582
57	14	18	24.5	+1.1278	5020	+2701
58	14	20	4.6	+1.0160	5023	+2701
♀	15	6	10.4	−0.0840	4555	+2522
9	19	6	24.2	−1.0995	5686	+1791

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	April					Mai			
	d h m					d h m			
11	19 6 47.6	−1.2912	5689	+1782	2	13 18 39.4	−0.0309	5149	+2684
12	19 7 0.3	−0.8262	5690	+1777	17	18 15 32.6	+0.5632	6074	+0350
13	19 7 28.8	−0.9040	5694	+1766	18	18 23 29.6	−1.2053	6083	+0074
14	19 8 10.2	−0.7328	5699	+1750	19	19 6 40.8	+0.1954	6078	−0177
15	19 21 36.9	−0.2685	5806	+1411	20	20 1 7.8	−0.5970	6014	−0802
16	20 22 5.8	−0.8358	5950	+0684	21	20 2 27.5	−1.0330	6007	−0846
17	21 8 14.3	+0.6444	5980	+0353	22	20 2 38.2	−0.8462	6006	−0851
18	21 16 24.7	−1.1402	5990	+0080	23	20 4 55.3	−0.0430	5994	−0925
19	21 23 47.8	+0.2838	5989	−0167	24	20 11 30.7	−0.6230	5949	−1130
20	22 18 43.4	−0.5040	5931	−0786	26	21 17 25.4	−0.6326	5692	−1914
21	22 20 5.1	−0.9442	5928	−0828	27	22 18 20.3	−0.7386	5466	−2365
22	22 20 16.1	−0.7553	5928	−0834	28	23 13 36.9	+0.7648	5320	−2591
23	22 22 36.3	+0.0588	5916	−0907	30	24 4 55.3	+1.3240	5229	−2702
24	23 5 20.7	−0.5230	5878	−1111	32	25 10 12.2	+0.1933	5131	−2767
26	24 11 46.2	−0.5137	5652	−1901	35	28 23 43.1	−0.7447	5328	−1970
27	25 12 52.3	−0.6106	5459	−2363	37	30 7 19.5	+0.3868	5466	−1326
28	26 8 8.4	+0.8940	5335	−2601	38	30 10 59.4	+0.8443	5478	−1241
32	28 4 17.5	+0.2994	5176	−2799	39	30 11 22.2	−0.6307	5480	−1232
					40	31 7 18.9	−0.9200	5531	−0741
	Mai				41	31 21 21.0	−0.2603	5542	−0377
35	1 16 30.5	−0.7357	5355	−1995					
37	2 23 50.7	+0.3462	5474	−1342		Juni			
38	3 3 29.4	+0.7976	5484	−1256	43	1 6 17.8	+0.2419	5539	−0142
39	3 3 52.1	−0.6728	5485	−1247	44	1 22 49.1	−1.1643	5509	+0288
40	3 23 44.6	−0.9885	5525	−0754	45	2 8 15.8	+0.0123	5476	+0523
41	4 13 45.7	−0.3489	5530	−0389	46	3 6 29.6	+0.3780	5375	+1053
43	4 22 42.5	+0.1409	5526	−0154	48	3 7 56.9	+0.4235	5366	+1086
45	6 0 42.0	−0.1196	5459	+0514	49	5 1 20.4	+0.8522	5132	+1867
46	6 22 56.7	+0.2202	5361	+1041	50	5 7 56.7	+0.6064	5098	+1967
47	6 23 27.2	+1.2362	5356	+1052	51	5 10 48.9	+0.5205	5082	+2008
48	7 0 24.0	+0.2641	5354	+1073	54	7 12 47.5	+1.3253	4925	+2525
49	8 17 40.2	+0.6522	5140	+1864	55	7 13 20.5	−0.0185	4924	+2528
50	9 0 13.8	+0.4022	5109	+1966	57	8 12 16.6	+1.4073	4936	+2644
51	9 3 4.8	+0.3150	5097	+2008	58	8 13 59.6	+1.2920	4938	+2650
54	11 4 25.6	+1.1002	4969	+2550	2	10 4 9.0	+0.1346	5097	+2646
55	11 4 58.1	−0.2342	4970	+2555	3	12 1 39.8	+1.0478	5499	+2232
57	12 3 29.9	+1.1902	4987	+2679	5	12 11 17.6	+0.7752	5604	+2068
58	12 5 11.0	+1.0775	4991	+2684	6	12 12 40.3	−0.2877	5620	+2042

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Juni			
	d h m			
7	12 15 19.6	+0.1349	5650	+1991
8	12 15 58.4	+0.6707	5655	+1978
24	16 19 48.9	−0.7488	6045	−1164
26	18 0 50.8	−0.8065	5784	−1958
27	19 1 4.6	−0.9442	5541	−2406
28	19 19 54.5	+0.5239	5378	−2623
30	20 10 55.8	+1.0715	5272	−2726
32	21 15 51.9	−0.0467	5144	−2768
35	25 5 38.0	−0.8728	5291	−1940
37	26 13 32.2	+0.3262	5436	−1299
38	26 17 14.1	+0.7936	5450	−1214
39	26 17 37.1	−0.6868	5452	−1206
40	27 13 43.5	−0.9362	5511	−0718
41	28 3 51.1	−0.2446	5529	−0356
43	28 12 50.8	+0.2771	5530	−0121
44	29 5 26.3	−1.0990	5506	+0308
45	29 14 54.8	+0.0997	5479	+0547
46	30 13 11.4	+0.5110	5382	+1074
48	30 14 38.8	+0.5592	5375	+1106
	Juli			
49	2 8 7.2	+1.0678	5137	+1885
50	2 14 44.9	+0.8332	5102	+1984
51	2 17 37.9	+0.7515	5085	+2023
55	4 20 34.7	+0.2732	4899	+2523
1	7 6 54.7	−1.3925	4999	+2624
2	7 12 35.5	+0.4214	5030	+2604
3	9 11 12.4	+1.2730	5429	+2186
5	9 21 3.0	+0.9766	5536	+2025
6	9 22 27.4	−0.0994	5550	+2000
7	10 1 10.0	+0.3210	5582	+1949
8	10 1 49.5	+0.8604	5590	+1936
9	10 11 1.1	−0.9224	5694	+1745
10	10 11 9.0	−1.2598	5695	+1742
11	10 11 24.3	−1.1148	5698	+1736
12	10 11 36.9	−0.6530	5701	+1732
13	10 12 5.2	−0.7328	5707	+1721
14	10 12 46.3	−0.5656	5715	+1705

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Juli			
	d h m			
15	11 2 1.6	−0.1720	5861	+1373
16	12 1 46.6	−0.8518	6076	+0645
27	16 10 0.5	−1.1248	5630	−2463
28	17 4 16.4	+0.2832	5466	−2682
30	17 18 50.2	+0.7982	5356	−2782
31	18 8 45.6	+1.1835	5274	−2822
32	18 22 56.8	−0.3341	5216	−2811
35	22 11 22.0	−1.1110	5291	−1926
37	23 19 13.9	+0.1391	5416	−1276
38	23 22 56.2	+0.6136	5431	−1193
39	23 23 19.3	−0.8658	5432	−1184
40	24 19 29.5	−1.0765	5488	−0695
41	25 9 40.8	−0.3562	5504	−0334
43	25 18 43.0	+0.1854	5507	−0999
44	26 11 23.0	−1.1572	5486	+0329
45	26 20 53.8	+0.0638	5464	+0568
46	27 19 14.8	+0.5249	5375	+1092
48	27 20 42.5	+0.5770	5368	+1127
49	29 14 14.0	+1.1810	5144	+1908
50	29 20 51.8	+0.9610	5108	+2006
51	29 23 44.8	+0.8862	5091	+2046
	August			
55	1 2 46.0	+0.5108	4898	+2538
1	3 13 39.0	−1.1090	4963	+2611
2	3 19 25.6	+0.7228	4990	+2588
5	6 5 13.6	+1.2502	5450	+1986
6	6 6 40.4	+0.1567	5464	+1960
7	6 9 27.7	+0.5796	5494	+1909
8	6 10 8.3	+1.1260	5501	+1896
9	6 19 36.1	−0.6970	5601	+1705
10	6 19 44.2	−1.0398	5602	+1702
11	6 19 59.9	−0.8932	5606	+1696
12	6 20 12.9	−0.4249	5610	+1692
13	6 20 42.0	−0.5065	5614	+1682
14	6 21 24.4	−0.3380	5622	+1666
15	7 11 3.1	+0.0380	5765	+1336
16	8 11 28.2	−0.6965	5986	+0617

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	August			
	d h m			
17	8 21 25.2	+0.6982	6047	+0285
18	9 5 22.5	−1.1198	6084	+0009
19	9 12 30.7	+0.2300	6103	−0244
20	10 6 36.9	−0.6728	6097	−0880
21	10 7 54.4	−1.1108	6095	−0925
22	10 8 4.8	−0.9278	6093	−0930
23	10 10 17.9	−0.1512	6087	−1006
31	14 18 18.1	+0.9736	5352	−2880
32	15 8 5.0	−0.5485	5296	−2870
34	16 15 23.6	+1.4200	5246	−2675
36	19 13 7.4	+1.3177	5400	−1554
37	20 1 33.4	−0.0954	5438	−1273
38	20 5 13.1	+0.3798	5446	−1186
39	20 5 35.9	−1.0902	5446	−1177
40	21 1 35.9	−1.2790	5488	−0684
41	21 15 43.3	−0.5441	5498	−0320
42	21 23 22.0	+1.2520	5495	−0121
43	22 0 44.2	+0.0083	5496	−0086
45	23 2 54.6	−0.0744	5446	+0582
46	24 1 17.4	+0.4230	5358	+1109
48	24 2 45.2	+0.4774	5349	+1141
49	25 20 18.7	+1.1580	5139	+1927
50	26 2 56.3	+0.9510	5106	+2026
51	26 5 49.1	+0.8822	5092	+2068
55	28 8 40.8	+0.6073	4914	+2565
1	30 19 24.0	−0.9272	4969	+2625
2	31 1 11.1	+0.9148	4993	+2600
	Sept.			
4	2 5 49.3	−1.3587	5351	+2065
6	2 13 0.1	+0.3670	5415	+1943
7	2 15 50.5	+0.7938	5442	+1891
8	2 16 31.9	+1.3460	5449	+1878
9	3 2 11.5	−0.5016	5538	+1685
10	3 2 19.8	−0.8486	5540	+1682
11	3 2 35.9	−0.7005	5541	+1677
12	3 2 49.2	−0.2265	5544	+1671
13	3 3 19.0	−0.3096	5550	+1661

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Sept.			
	d h m			
14	3 4 2.3	−0.1394	5555	+1645
15	3 18 1.4	+0.2333	5685	+1314
16	4 19 9.4	−0.5332	5881	+0598
17	5 5 25.7	+0.8736	5941	+0270
18	5 13 38.8	−0.9824	5976	−0002
19	5 21 1.3	+0.3805	5993	−0251
20	6 15 43.1	−0.5591	5991	−0879
21	6 17 3.1	−1.0052	5991	−0922
22	6 17 13.8	−0.8200	5989	−0928
23	6 19 31.1	−0.0351	5983	−1003
24	7 2 5.2	−0.6645	5960	−1212
26	8 7 20.8	−0.9034	5801	−2030
34	13 1 15.4	+1.2767	5312	−2721
36	15 21 10.5	+1.1395	5465	−1573
37	16 9 19.2	−0.2569	5495	−1286
38	16 12 54.2	+0.2140	5501	−1198
39	16 13 16.5	−1.2410	5501	−1189
41	17 22 48.7	−0.6917	5525	−0316
42	18 6 21.8	+1.0958	5514	−0116
43	18 7 43.1	−0.1395	5513	−0081
45	19 9 41.2	−0.2068	5441	+0589
46	20 7 59.9	+0.3045	5346	+1115
48	20 9 27.6	+0.3597	5338	+1147
49	22 3 1.6	+1.0752	5124	+1931
50	22 9 39.3	+0.8756	5093	+2031
51	22 12 32.2	+0.8098	5079	+2073
55	24 15 16.9	+0.5899	4925	+2581
1	27 1 28.7	−0.8800	5005	+2652
2	27 7 11.8	+0.9590	5029	+2626
4	29 11 21.1	−1.2827	5375	+2078
6	29 18 30.0	+0.4445	5435	+1953
7	29 21 19.9	+0.8720	5458	+1900
9	30 7 40.4	−0.4234	5545	+1689
10	30 7 48.7	−0.7712	5546	+1686
11	30 8 4.8	−0.6228	5549	+1680
12	30 8 18.1	−0.1475	5550	+1675
13	30 8 47.9	−0.2307	5554	+1664
14	30 9 31.2	−0.0602	5560	+1648

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Sept.			
	d h m			
15	30 23 33.3	+0.3147	5674	+1312
	Okt.			
16	2 0 57.2	−0.4597	5840	+0593
17	2 11 24.2	+0.9588	5884	+0266
18	2 19 47.3	−0.9190	5906	−0004
19	3 3 20.1	+0.4579	5916	−0248
20	3 22 32.6	−0.5001	5896	−0869
21	3 23 54.9	−0.9532	5894	−0912
22	4 0 6.0	−0.7652	5894	−0918
23	4 2 27.4	+0.0301	5886	−0991
24	4 9 13.8	−0.6114	5861	−1197
26	5 15 28.2	−0.8674	5696	−2000
27	6 16 0.7	−1.1695	5541	−2473
28	7 10 37.6	+0.1626	5441	−2717
29	7 17 48.6	+1.3835	5408	−2784
30	8 1 12.3	+0.6046	5378	−2837
36	13 6 30.4	+1.1060	5532	−1594
37	13 18 24.2	−0.2795	5564	−1302
38	13 21 54.8	+0.1877	5570	−1212
39	13 22 16.6	−1.2552	5570	−1203
41	15 7 9.7	−0.7078	5579	−0319
42	15 14 35.3	−1.0678	5565	−0116
43	15 15 55.2	−0.1586	5562	−0080
45	16 17 32.8	−0.2222	5470	+0594
46	17 15 41.1	+0.2912	5352	+1118
48	17 17 8.3	+0.3466	5344	+1151
49	19 10 39.6	+1.0694	5106	+1927
50	19 17 18.2	+0.8710	5073	+2025
51	19 20 11.5	+0.8058	5060	+2066
55	21 23 4.2	+0.5889	4912	+2574
1	24 9 0.0	−0.8834	5031	+2664
2	24 14 39.3	+0.9438	5059	+2640
4	26 17 58.0	−1.2993	5436	+2098
6	27 0 58.8	+0.4119	5496	+1972
7	27 3 45.4	+0.8352	5523	+1918
9	27 13 54.2	−0.4539	5610	+1706
10	27 14 2.3	−0.7993	5610	+1701

Nr.	Zeit der Konj. in AR.	q	p'	q'
	Okt.			
	d h m			
11	27 14 18.1	−0.6520	5613	+1695
12	27 14 31.2	−0.1802	5616	+1690
13	27 15 0.4	−0.2630	5618	+1679
14	27 15 43.0	−0.0939	5625	+1663
15	28 5 30.0	+0.2736	5736	+1321
16	29 6 32.0	−0.5056	5884	+0594
17	29 16 52.9	+0.9050	5920	+0264
18	30 1 12.7	−0.9712	5931	−0007
19	30 8 43.8	+0.4022	5933	−0254
20	31 3 57.8	−0.5623	5886	−0869
21	31 5 20.6	−1.0173	5880	−0912
22	31 5 31.7	−0.8285	5880	−0918
23	31 7 54.0	−0.0314	5870	−0991
24	31 14 43.8	−0.6773	5834	−1193
	Nov.			
26	1 21 26.3	−0.9420	5635	−1978
27	2 22 34.8	−1.2488	5460	−2436
28	3 17 43.8	+0.1050	5354	−2670
29	4 1 7.7	+1.3455	5322	−2734
30	4 8 44.7	+0.5598	5295	−2788
31	4 22 52.5	+0.8889	5259	−2846
32	5 13 2.9	−0.6770	5243	−2854
41	11 16 6.7	−0.6073	5629	−0314
42	11 23 26.9	+1.1665	5614	−0113
43	12 0 45.9	−0.0536	5611	−0074
45	13 2 6.0	−0.0985	5511	+0604
46	14 0 2.6	+0.4266	5381	+1129
48	14 1 29.2	+0.4825	5372	+1161
49	15 18 54.2	+1.2235	5101	+1925
50	16 1 33.8	+1.0266	5064	+2020
51	16 4 27.7	+0.9615	5049	+2060
55	18 7 42.5	+0.7345	4881	+2551
1	20 18 2.2	−0.7974	5017	+2642
2	20 23 42.0	+1.0202	5051	+2621
4	23 2 39.9	−1.2930	5476	+2097
6	23 9 34.2	+0.3944	5545	+1972
7	23 12 18.1	+0.8098	5571	+1919

Elemente der Sternbedeckungen 1912.

Nr.	Zeit der Konj. in AR.	q	p'	q'	Nr.	Zeit der Konj. in AR.	q	p'	q'
	Nov.					Dez.			
	d h m					d h m			
9	23 22 15.7	—0.4846	5670	+1706	53	15 14 48.5	—1.1762	4852	+2526
10	23 22 23.6	—0.8268	5671	+1703	55	15 16 13.9	+1.0395	4849	+2534
11	23 22 39.2	—0.6814	5676	+1698	1	18 3 29.3	—0.5494	4964	+2602
12	23 22 51.9	—0.2146	5677	+1692	2	18 9 14.7	+1.2710	4998	+2581
13	23 23 20.6	—0.2973	5682	+1682	4	20 12 49.6	—1.1610	5451	+2065
14	24 0 2.3	—0.1308	5688	+1665	6	20 19 45.7	+0.5118	5528	+1943
15	24 13 31.5	+0.2117	5811	+1324	7	20 22 30.1	+0.9202	5559	+1891
16	25 13 56.5	—0.5940	5974	+0588	9	21 8 28.0	—0.3990	5669	+1681
17	26 0 1.2	+0.7858	6011	+0254	10	21 8 35.9	—0.7412	5670	+1678
18	26 8 8.0	—1.0790	6024	—0021	11	21 8 51.4	—0.5965	5671	+1672
19	26 15 27.6	+0.2685	6023	—0271	12	21 9 4.2	—0.1307	5676	+1668
20	27 10 14.0	—0.7087	5966	—0892	13	21 9 32.8	—0.2146	5680	+1657
21	27 11 35.0	—1.1606	5960	—0935	14	21 10 14.4	—0.0501	5688	+1641
22	27 11 45.9	—0.9740	5959	—0939	15	21 23 40.0	+0.2570	5826	+1302
23	27 14 5.1	—0.1876	5946	—1014	16	22 23 47.9	—0.6049	6024	+0568
24	27 20 46.5	—0.8350	5904	—1217	17	23 9 41.8	+0.7375	6074	+0231
26	29 3 1.5	—1.1300	5668	—1994	18	23 17 38.4	—1.1275	6097	—0047
28	30 23 16.4	—0.1024	5334	—2656	19	24 0 47.7	+0.1870	6103	—0299
					20	24 19 4.2	—0.8215	6061	—0929
	Dez.				21	24 20 22.9	—1.2700	6056	—0973
29	1 6 44.3	+1.1447	5291	—2714	22	24 20 33.4	—1.0868	6056	—0979
30	1 14 26.6	+0.3598	5258	—2761	23	24 22 48.6	—0.3167	6042	—1053
31	2 4 46.9	+0.7018	5209	—2809	24	25 5 18.0	—0.9698	6006	—1260
32	2 19 12.9	—0.8612	5186	—2811	25	26 0 17.6	+1.2715	5860	—1800
34	4 3 22.2	+1.1485	5222	—2652	26	26 10 36.4	—1.3260	5766	—2046
45	10 10 24.5	+0.0630	5539	+0623	28	28 5 36.7	—0.3865	5398	—2696
46	11 8 16.0	+0.6252	5409	+1149	29	28 12 54.7	+0.8392	5348	—2750
48	11 9 42.3	+0.6836	5400	+1180	30	28 20 27.8	+0.0577	5305	—2791
50	13 9 42.0	+1.2975	5069	+2031	31	29 10 34.4	+0.3920	5241	—2826
51	13 12 36.2	+1.2353	5052	+2070	32	30 0 51.0	—1.1612	5204	—2816
52	13 14 55.4	—.13187	5038	+2100	34	31 8 55.7	+0.8720	5204	—2630

Sternbedeckungen für Berlin 1912.

Tag	Nr.	Name	Eintritt mittl. Zeit	Q_1	Austritt mittl. Zeit	Q_2	Bemerkungen
			h m	°	h m	°	h m
Jan. 7	28	l Leonis	19 17.0	141.4	20 13.4	281.5	☾ Untg. 22 42
9	32	η Virginis	13 24.4	164.9	14 14.8	263.0	☾ Aufg. 10 51
27	3	π Arietis	12 37.6	75.5	13 32.2	250.5	☾ Untg. 14 4
28	♂	Mars	15 23.0	59.4	16 9.0	279.6	☾ Untg. 15 32
Febr. 24	8	τ^2 Arietis	9 32.1	77.3	10 33.9	251.8	☾ Untg. 13 15
März 2	28	l Leonis	17 0.8	74.4	17 39.4	345.0	☾ Untg. 19 4
4	32	η Virginis	9 10.0	80.7	9 56.2	344.6	☾ Aufg. 7 16
22	5	δ Arietis	10 10.6	99.3	10 58.2	231.9	☾ Untg. 11 3
April 21	17	136 Tauri	8 46.6	98.6	9 43.2	269.0	☾ Untg. 12 56
Mai 30	38	α Scorpii	9 57.2	95.1	11 11.8	305.6	☾ Aufg. 8 21
Juni 20	30	σ Leonis	11 36.5	110.9	12 28.3	304.3	☾ Untg. 11 59
Juli 2	50	ε Capricorni	14 14.7	37.2	15 29.3	263.6	⊙ Aufg. 15 44
18	31	β Virginis	9 31.7	131.5	10 24.9	286.0	☾ Untg. 10 16
Sept. 2	7	τ^1 Arietis	14 54.9	107.1	15 47.3	197.4	☾ i. Mer. 16 30
18	42	γ^1 Sagittarii	5 48.4	114.1	7 5.0	247.6	⊙ Untg. 6 7
22	50	ε Capricorni	9 9.5	49.4	10 28.7	249.1	☾ i. Mer. 9 26
22	51	$\varkappa$ Capricorni	12 56.6	94.6	13 50.8	203.8	☾ Untg. 13 49
24	55	χ Aquarii	15 56.3	80.4	16 52.1	217.8	☾ Untg. 16 18
Okt. 2	17	136 Tauri	10 0.6	122.3	10 39.8	219.4	☾ Aufg. 7 59
Nov. 16	51	$\varkappa$ Capricorni	3 16.7	47.4	4 33.5	260.5	⊙ Untg. 4 4
18	55	χ Aquarii	7 22.7	36.4	8 37.9	247.4	☾ i. Mer. 7 22
23	6	ζ Arietis	8 59.3	3.1	9 35.9	300.1	☾ i. Mer. 11 3
24	15	χ Tauri	13 44.4	30.5	14 33.2	305.1	☾ i. Mer. 11 59
26	19	49 Aurigae	15 25.9	55.2	16 18.3	319.8	☾ i. Mer. 14 4
Dez. 1	30	σ Leonis	12 45.9	98.9	13 41.1	315.9	☾ Aufg. 11 52
23	17	136 Tauri	8 43.8	143.4	9 15.4	199.9	☾ i. Mer. 11 45

TRABANT I.

Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a
	h m			h m			h m	
Jan. 2	11 57.0	−0.0505	März 22	3 43.6	−0.0510	Juni 9	17 36.5	−0.0509
4	6 27.1	505	23	22 11.3	510	11	12 2.5	508
6	0 57.0	505	25	16 39.0	510	13	6 28.4	507
7	19 27.0	505	27	11 6.6	510	15	0 54.5	506
9	13 56.9	505	29	5 34.2	510	16	19 20.6	505
11	8 26.8	505	31	0 1.6	511	18	13 46.7	504
13	2 56.5	505	April 1	18 29.0	511	20	8 12.9	503
14	21 26.4	505	3	12 56.3	511	22	2 39.1	502
16	15 56.1	505	5	7 23.6	511	23	21 5.4	501
18	10 25.9	506	7	1 50.7	512	25	15 31.7	500
20	4 55.6	506	8	20 17.8	512	27	9 58.0	500
21	23 25.3	506	10	14 44.8	513	29	4 24.5	499
23	17 54.9	506	12	9 11.9	513	30	22 50.8	498
25	12 24.4	506	14	3 38.7	513	Juli 2	17 17.3	497
27	6 53.9	506	15	22 5.6	513	4	11 43.8	496
29	1 23.4	506	17	16 32.3	513	6	6 10.5	495
30	19 52.8	506	19	10 59.0	513	8	0 37.1	493
Febr. 1	14 22.3	506	21	5 25.7	513	9	19 3.9	492
3	8 51.6	506	22	23 52.3	513	11	13 30.6	491
5	3 21.0	506	24	18 18.8	514	13	7 57.6	490
6	21 50.1	506	26	12 45.4	514	15	2 24.5	489
8	16 19.5	506	28	7 11.7	514	16	20 51.4	487
10	10 48.6	506	30	1 38.1	514	18	15 18.5	486
12	5 17.8	507	Mai 1	20 4.4	514	20	9 45.7	485
13	23 46.8	507	3	14 30.8	514	22	4 12.9	484
15	18 15.8	507	5	8 56.9	514	23	22 40.1	483
17	12 44.7	507	7	3 23.1	514	25	17 7.5	482
19	7 13.7	508	8	21 49.3	514	27	11 34.9	482
21	1 42.6	508	10	16 15.4	514	29	6 2.4	481
22	20 11.4	508	12	10 41.4	514	31	0 30.0	479
24	14 40.1	508	14	5 7.6	514	Aug. 1	18 57.7	478
26	9 8.8	508	15	23 33.5	514	3	13 25.3	477
28	3 37.3	508	17	17 59.6	513	5	7 53.1	476
29	22 5.9	508	19	12 25.5	513	7	2 21.0	475
März 2	16 34.4	508	21	6 51.5	513	8	20 48.9	474
4	11 2.9	508	23	1 17.3	512	10	15 16.9	472
6	5 31.2	509	24	19 43.2	512	12	9 44.9	472
7	23 59.6	509	26	14 9.2	511	14	4 13.0	470
9	18 27.8	509	28	8 35.0	511	15	22 41.2	469
11	12 56.0	509	30	3 1.0	511	17	17 9.5	468
13	7 24.0	509	31	21 26.9	511	19	11 37.8	467
15	1 52.1	509	Juni 2	15 52.7	510	21	6 6.1	466
16	20 20.1	509	4	10 18.7	510	23	0 34.6	465
18	14 48.0	509	6	4 44.6	510	24	19 3.1	464
20	9 15.8	509	7	23 10.6	509	26	13 31.6	463

TRABANT I. (Fortsetzung.)

Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a
Aug. 28	8h 0.3m	—0.0462	Okt. 9	19h 43.7m	—0.0440	Nov. 21	7h 47.5m	—0.0416
30	2 29.0	461	11	14 13.6	439	23	2 17.9	415
31	20 57.8	460	13	8 43.5	438	24	20 48.3	414
Sept. 2	15 26.6	459	15	3 13.4	437	26	15 18.8	413
4	9 55.5	458	16	21 43.3	436	28	9 49.1	411
6	4 24.4	457	18	16 13.3	435	30	4 19.7	410
7	22 53.4	456	20	10 43.3	434	Dez. 1	22 50.0	408
9	17 22.5	455	22	5 13.3	433	3	17 20.5	407
11	11 51.6	454	23	23 43.4	432	5	11 50.9	406
13	6 20.7	453	25	18 13.6	431	7	6 21.4	405
15	0 49.9	452	27	12 43.6	430	9	0 51.8	403
16	19 19.3	451	29	7 13.9	430	10	19 22.3	402
18	13 48.6	450	31	1 44.0	429	12	13 52.7	401
20	8 18.0	450	Nov. 1	20 14.2	427	14	8 23.2	400
22	2 47.4	449	3	14 44.4	426	16	2 53.6	398
23	21 16.8	448	5	9 14.7	425	17	21 24.1	397
25	15 46.2	447	7	3 44.9	424	19	15 54.6	395
27	10 15.8	446	8	22 15.3	423	21	10 25.0	394
29	4 45.4	445	10	16 45.4	422	23	4 55.3	392
30	23 15.0	444	12	11 15.8	421	24	23 25.9	391
Okt. 2	17 44.6	443	14	5 46.1	420	26	17 56.2	390
4	12 14.3	442	16	0 16.5	419	28	12 26.6	388
6	6 44.1	442	17	18 46.7	418	30	6 57.1	387
8	1 14.0	441	19	13 17.1	417			

TRABANT II.

Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a	Geoz. Obere Konj. Mittlere Zeit		b/a
Jan. 1	15h 51.4m	—0.0505	März 12	18h 27.3m	—0.0509	Mai 22	18h 9.4m	—0.0513
5	5 14.1	505	16	7 42.9	509	26	7 17.5	512
8	18 36.5	505	19	20 57.9	509	29	20 24.8	511
12	7 58.7	505	23	10 12.5	510	Juni 2	9 32.9	510
15	21 20.7	505	26	23 26.6	510	5	22 40.2	510
19	10 42.6	506	30	12 40.2	511	9	11 48.3	509
23	0 4.0	506	April 3	1 53.1	511	13	0 56.0	507
26	13 25.1	506	6	15 5.8	512	16	14 4.8	505
30	2 45.9	506	10	4 17.6	513	20	3 13.2	503
Febr. 2	16 6.4	506	13	17 29.3	513	23	16 22.6	501
6	5 26.6	506	17	6 40.1	513	27	5 31.4	500
9	18 46.6	506	20	19 50.8	513	30	18 41.8	498
13	8 6.2	507	24	9 0.8	514	Juli 4	7 51.5	496
16	21 25.3	507	27	22 10.8	514	7	21 2.7	493
20	10 44.1	508	Mai 1	11 19.9	514	11	10 13.4	491
24	0 2.4	508	5	0 29.1	514	14	23 25.8	489
27	13 20.3	508	8	13 37.4	514	18	12 37.5	487
März 2	2 37.8	508	12	2 46.0	514	22	1 50.9	484
5	15 54.7	509	15	15 53.8	514	25	15 3.7	482
9	5 11.3	509	19	5 2.1	513	29	4 18.3	480

TRABANT II. (Fortsetzung.)

Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$
	h m			h m			h m	
Aug. 1	17 32.3	−0.0478	Sept. 24	1 12.7	−0.0448	Nov. 16	10 8.2	−0.0419
5	6 48.0	476	27	14 34.2	446	19	23 33.3	417
8	20 3.1	474	Okt. 1	3 57.2	444	23	12 58.2	415
12	9 19.8	472	4	17 19.5	443	27	2 23.4	412
15	22 36.0	469	8	6 42.8	441	30	15 48.3	409
19	11 53.8	467	11	20 5.6	439	Dez. 4	5 13.6	407
23	1 11.1	465	15	9 29.4	437	7	18 38.5	404
26	14 30.1	463	18	22 52.7	435	11	8 3.8	402
30	3 48.4	461	22	12 16.9	433	14	21 28.7	399
Sept. 2	17 8.2	459	26	1 40.7	431	18	10 53.7	396
6	6 27.4	457	29	15 5.2	429	22	0 18.7	393
9	19 48.1	455	Nov. 2	4 29.3	427	25	13 43.6	390
13	9 8.2	453	5	17 54.2	424	29	3 8.3	388
16	22 29.6	452	9	7 18.6	423			
20	11 50.6	450	12	20 43.6	421			

TRABANT III.

Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$
	h m			h m			h m	
Jan. 5	8 26.8	−0.0505	Mai 6	3 11.7	−0.0514	Sept. 4	15 17.1	−0.0458
12	12 48.7	505	13	6 32.1	514	11	19 22.4	454
19	17 9.1	506	20	9 50.1	513	18	23 30.9	450
26	21 26.6	506	27	13 6.3	511	26	3 43.2	447
Febr. 3	1 41.3	506	Juni 3	16 22.7	510	Okt. 3	7 58.0	443
10	5 53.2	506	10	19 39.0	508	10	12 15.2	440
17	10 1.8	507	17	22 57.9	504	17	16 34.6	436
24	14 7.2	508	25	2 18.3	501	24	20 56.1	432
März 2	18 9.0	508	Juli 2	5 41.5	497	Nov. 1	1 20.2	428
9	22 7.3	509	9	9 7.9	493	8	5 45.5	423
17	2 0.7	509	16	12 38.2	488	15	10 12.5	419
24	5 49.8	510	23	16 13.2	483	22	14 40.0	415
31	9 34.2	511	30	19 52.9	479	29	19 8.5	410
April 7	13 14.0	512	Aug. 6	23 37.8	475	Dez. 6	23 37.3	405
14	16 49.3	513	14	3 26.2	470	14	4 6.3	400
21	20 20.4	513	21	7 19.2	466	21	8 36.2	394
28	23 48.1	514	28	11 16.2	462	28	13 5.5	388

TRABANT IV.

Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$	Geoz. Obere Konj. Mittlere Zeit		$\frac{b}{a}$
	h m			h m			h m	
Jan. 7	20 16.0	−0.0443	Mai 20	14 55.3	−0.0455	Okt. 1	1 46.4	−0.0385
24	16 11.3	445	Juni 6	5 4.6	450	17	21 30.9	378
Febr. 10	11 35.2	447	22	19 22.8	441	Nov. 3	17 42.6	370
27	6 19.9	450	Juli 9	10 14.9	430	20	14 12.7	362
März 15	0 15.4	452	26	1 56.7	420	Dez. 7	10 55.8	353
31	17 16.5	454	Aug. 11	18 35.5	410	24	7 42.6	342
April 17	9 18.7	456	28	12 10.9	401			
Mai 4	0 27.6	457	Sept. 14	6 37.3	393			

TRABANT I.

Eintritte

Datum		h	m	s
Jan.	2	10	8	56
	4	4	37	27
	5	23	5	51
	7	17	34	22
	9	12	2	47
	11	6	31	17
	13	0	59	39
	14	19	28	9
	16	13	56	33
	18	8	25	3
	20	2	53	24
	21	21	21	52
	23	15	50	15
	25	10	18	44
	27	4	47	3
	28	23	15	32
	30	17	43	54
Febr.	1	12	12	22
	3	6	40	40
	5	1	9	8
	6	19	37	29
	8	14	5	56
	10	8	34	15
	12	3	2	41
	13	21	31	2
	15	15	59	28
	17	10	27	46
	19	4	56	11
	20	23	24	31
	22	17	52	57
	24	12	21	15
	26	6	49	39
	28	1	17	58
	29	19	46	23
März	2	14	14	41
	4	8	43	4

Eintritte

Datum		h	m	s
März	6	3	11	23
	7	21	39	48
	9	16	8	5
	11	10	36	28
	13	5	4	47
	14	23	33	12
	16	18	1	29
	18	12	29	52
	20	6	58	10
	22	1	26	35
	23	19	54	52
	25	14	23	15
	27	8	51	34
	29	3	19	58
	30	21	48	16
April	1	16	16	38
	3	10	44	57
	5	5	13	22
	6	23	41	40
	8	18	10	3
	10	12	38	23
	12	7	6	48
	14	1	35	7
	15	20	3	30
	17	14	31	50
	19	9	0	16
	21	3	28	36
	22	21	56	59
	24	16	25	21
	26	10	53	47
	28	5	22	8
	29	23	50	33
Mai	1	18	18	56
	3	12	47	22
	5	7	15	44
	7	1	44	10

Eintritte

Datum		h	m	s
Mai	8	20	12	33
	10	14	41	1
	12	9	9	25
	14	3	37	52
	15	22	6	16
	17	16	34	46
	19	11	3	11
	21	5	31	39
	23	0	0	5
	24	18	28	35
	26	12	57	2
	28	7	25	31
	30	1	53	59
	31	20	22	30

Austritte

Datum		h	m	s
Juni	2	16	59	39
	4	11	28	10
	6	5	56	39
	8	0	25	13
	9	18	53	43
	11	13	22	16
	13	7	50	47
	15	2	19	21
	16	20	47	53
	18	15	16	28
	20	9	45	0
	22	4	13	37
	23	22	42	11
	25	17	10	46
	27	11	39	20
	29	6	7	57
Juli	1	0	36	33
	2	19	5	10
	4	13	33	45

Austritte

Datum		h	m	s
Juli	6	8	2	23
	8	2	31	1
	9	20	59	38
	11	15	28	15
	13	9	56	55
	15	4	25	33
	16	22	54	12
	18	17	22	50
	20	11	51	30
	22	6	20	10
	24	0	48	50
	25	19	17	29
	27	13	46	10
	29	8	14	51
	31	2	43	31
Aug.	1	21	12	12
	3	15	40	54
	5	10	9	36
	7	4	38	16
	8	23	6	58
	10	17	35	40
	12	12	4	23
	14	6	33	4
	16	1	1	46
	17	19	30	28
	19	13	59	12
	21	8	27	54
	23	2	56	36
	24	21	25	19
	26	15	54	4
	28	10	22	45
	30	4	51	28
	31	23	20	11
Sept.	2	17	48	56
	4	12	17	38
	6	6	46	21

TRABANT I. (Fortsetzung.)

Austritte		h	m	s	Austritte		h	m	s	Austritte		h	m	s	Austritte		h	m	s
Sept.	8	1	15	4	Sept.	27	12	31	1	Okt.	16	23	46	53	Nov.	5	11	2	34
	9	19	43	49		29	6	59	43		18	18	15	36		7	5	31	14
	11	14	12	31	Okt.	1	1	28	29		20	12	44	16		8	23	59	56
	13	8	41	14		2	19	57	10		22	7	13	1		10	18	28	34
	15	3	9	57		4	14	25	53		24	1	41	42		12	12	57	18
	16	21	38	42		6	8	54	35		25	20	10	24		14	7	25	57
	18	16	7	24		8	3	23	21		27	14	39	4		16	1	54	38
	20	10	36	8		9	21	52	2		29	9	7	49		17	20	23	16
	22	5	4	50		11	16	20	45		31	3	36	29		19	14	51	59
	23	23	33	36		13	10	49	26	Nov.	1	22	5	11					
	25	18	2	18		15	5	18	12		3	16	33	50					

TRABANT II.

Eintritte		h	m	s	Eintritte		h	m	s	Austritte		h	m	s	Austritte		h	m	s
Jan.	1	13	8	43	März	26	19	47	6	Juni	9	13	31	32	Sept.	2	21	2	50
	5	2	25	16		30	9	4	9		13	2	49	26		6	10	21	15
	8	15	41	49	April	2	22	21	1		16	16	8	20		9	23	40	40
	12	4	58	20		6	11	38	12		20	5	26	20		13	12	59	4
	15	18	14	50		10	0	55	8		23	18	45	22		17	2	18	25
	19	7	31	20		13	14	12	28		27	8	3	28		20	15	36	47
	22	20	47	50		17	3	29	29		30	21	22	37		24	4	56	4
	26	10	4	19		20	16	46	57	Juli	4	10	40	47		27	18	14	23
	29	23	20	49		24	6	4	4		8	0	0	2	Okt.	1	7	33	34
Febr.	2	12	37	18		27	19	21	42		11	13	18	17		4	20	51	50
	6	1	53	49	Mai	1	8	38	54		15	2	37	38		8	10	10	55
	9	15	10	20		4	21	56	42		18	15	55	55		11	23	29	8
	13	4	26	52		8	11	14	0		22	5	15	21		15	12	48	5
	16	17	43	24		12	0	31	58		25	18	33	41		19	2	6	14
	20	6	59	58		15	13	49	22		29	7	53	10		22	15	25	4
	23	20	16	33		19	3	7	30	Aug.	1	21	11	33		26	4	43	10
	27	9	33	8		22	16	25	1		5	10	31	4		29	18	1	51
März	1	22	49	48		26	5	43	20		8	23	49	29	Nov.	2	7	19	52
	5	12	6	25		29	19	0	56		12	13	9	1		5	20	38	25
	9	1	23	9							16	2	27	26		9	9	56	22
	12	14	39	50	Austritte						19	15	46	58		12	23	14	46
	16	3	56	39							23	5	5	24		16	12	32	38
	19	17	13	23	Juni	2	10	54	58		26	18	24	56		20	1	50	53
	23	6	30	18		6	0	12	47		30	7	43	21					

TRABANT III.

Mitte der Verfinsterung		Halbe Dauer	Mitte der Verfinsterung		Halbe Dauer
	h m s	h m s		h m s	h m s
Jan. 5	5 19 12	0 45 59	Juni 18	0 37 22	0 59 45
12	9 17 23	0 46 29	25	4 36 22	1 0 25
19	13 16 6	0 46 59	Juli 2	8 35 28	1 1 5
26	17 14 10	0 47 30	9	12 34 20	1 1 45
Febr. 2	21 12 14	0 48 2	16	16 33 21	1 2 25
10	1 9 52	0 48 35	23	20 32 52	1 3 5
17	5 7 26	0 49 9	31	0 32 23	1 3 46
24	9 5 20	0 49 43	Aug. 7	4 32 31	1 4 26
März 2	13 3 12	0 50 17	14	8 32 5	1 5 6
9	17 1 40	0 50 52	21	12 31 40	1 5 47
16	20 59 32	0 51 28	28	16 30 58	1 6 27
24	0 57 26	0 52 5	Sept. 4	20 30 21	1 7 8
31	4 54 59	0 52 42	12	0 30 12	1 7 48
April 7	8 52 35	0 53 19	19	4 29 57	1 8 29
14	12 50 38	0 53 56	26	8 30 14	1 9 9
21	16 48 43	0 54 34	Okt. 3	12 29 53	1 9 50
28	20 47 27	0 55 12	10	16 29 28	1 10 30
Mai 6	0 45 40	0 55 50	17	20 28 45	1 11 10
13	4 43 59	0 56 29	25	0 28 5	1 11 50
20	8 42 4	0 57 7	Nov. 1	4 27 52	1 12 30
27	12 40 17	0 57 46	8	8 27 27	1 13 9
Juni 3	16 39 2	0 58 26	15	12 27 32	1 13 49
10	20 37 51	0 59 5			

TRABANT IV.

Es finden in diesem Jahre keine Verfinsterungen statt.

0^h	α	β	p_a	a	b	U'	B'	P'
	"	"	"	"	"	° '	° '	° '
Jan. 2	19.44	17.68	+0.04	43.80	−15.31	237 50.3	−21 59.8	+14 31.7
6	19.31	17.56	0.04	43.51	15.20	237 59.4	22 2.1	14 27.9
10	19.17	17.44	0.04	43.21	15.10	238 8.5	22 4.5	14 24.2
14	19.04	17.32	0.05	42.91	15.00	238 17.6	22 6.8	14 20.4
18	18.90	17.20	0.05	42.60	14.91	238 26.7	22 9.1	14 16.7
22	18.77	17.07	+0.05	42.29	−14.82	238 35.8	−22 11.4	+14 12.9
26	18.63	16.94	0.05	41.98	14.74	238 44.9	22 13.7	14 9.1
30	18.50	16.82	0.05	41.67	14.66	238 54.0	22 16.0	14 5.3
Febr. 3	18.36	16.70	0.05	41.36	14.59	239 3.1	22 18.3	14 1.5
7	18.23	16.58	0.05	41.06	14.52	239 12.2	22 20.6	13 57.7
11	18.10	16.46	+0.05	40.77	−14.46	239 21.3	−22 22.9	+13 53.9
15	17.97	16.35	0.05	40.48	14.41	239 30.4	22 25.2	13 50.1
19	17.85	16.24	0.05	40.20	14.37	239 39.5	22 27.5	13 46.3
23	17.73	16.13	0.05	39.93	14.33	239 48.7	22 29.7	13 42.4
27	17.61	16.03	0.05	39.67	14.30	239 57.8	22 32.0	13 38.6
März 2	17.50	15.93	+0.04	39.42	−14.27	240 7.0	−22 34.2	+13 34.7
6	17.39	15.83	0.04	39.18	14.25	240 16.2	22 36.4	13 30.9
10	17.29	15.74	0.04	38.94	14.24	240 25.4	22 38.6	13 27.0
14	17.19	15.65	0.03	38.72	14.23	240 34.5	22 40.8	13 23.2
18	17.10	15.57	0.03	38.52	14.23	240 43.7	22 43.0	13 19.3
22	17.02	15.50	+0.02	38.33	−14.23	240 52.9	−22 45.2	+13 15.4
26	16.94	15.43	+0.02	38.15	−14.24	241 2.1	−22 47.3	+13 11.5
Okt. 4	19.71	18.05	−0.04	44.42	−18.75	248 31.0	−24 21.7	+ 9 56.1
8	19.83	18.16	0.04	44.69	18.84	248 40.5	24 23.5	9 51.9
12	19.95	18.26	0.03	44.94	18.93	248 50.0	24 25.2	9 47.7
16	20.06	18.36	0.03	45.18	19.01	248 59.5	24 26.9	9 43.5
20	20.16	18.45	0.02	45.41	19.08	249 9.0	24 28.6	9 39.2
24	20.25	18.53	−0.02	45.62	−19.14	249 18.5	−24 30.3	+ 9 35.0
28	20.33	18.60	0.01	45.80	19.19	249 28.0	24 32.0	9 30.7
Nov. 1	20.40	18.66	0.01	45.96	19.23	249 37.5	24 33.7	9 26.5
5	20.46	18.72	0.01	46.10	19.25	249 47.1	24 35.3	9 22.2
9	20.51	18.77	−0.01	46.21	19.26	249 56.6	24 37.0	9 17.9
13	20.55	18.80	0.00	46.29	−19.26	250 6.2	−24 38.6	+ 9 13.6
17	20.58	18.82	0.00	46.34	19.25	250 15.7	24 40.3	9 9.3
21	20.59	18.83	0.00	46.37	19.22	250 25.3	24 41.9	9 5.0
25	20.59	18.83	0.00	46.37	19.18	250 34.8	24 43.5	9 0.7
29	20.58	18.81	0.00	46.34	19.14	250 44.4	24 45.1	8 56.4
Dez. 3	20.55	18.78	0.00	46.28	−19.09	250 54.0	−24 46.7	+ 8 52.1
7	20.51	18.75	0.00	46.19	19.02	251 3.6	24 48.2	8 47.7
11	20.46	18.71	+0.01	46.07	18.94	251 13.2	24 49.8	8 43.4
15	20.40	18.65	0.01	45.93	18.85	251 22.8	24 51.3	8 39.1
19	20.32	18.58	0.01	45.77	18.76	251 32.4	24 52.9	8 34.8
23	20.24	18.50	+0.02	45.58	−18.66	251 42.0	−24 54.4	+ 8 30.4
27	20.15	18.41	0.02	45.37	18.56	251 51.6	24 56.0	8 26.1
31	20.05	18.32	+0.03	45.14	−18.45	252 1.2	−24 57.5	+ 8 21.7

0^h		U	B	P
		° ′	° ′	° ′
Jan.	0	275 7.3	−20 27.8	−0 37.8
	2	275 3.9	20 27.5	0 37.4
	4	275 0.9	20 27.3	0 37.0
	6	274 58.3	20 27.1	0 36.7
	8	274 56.2	20 27.1	0 36.4
	10	274 54.5	−20 27.3	−0 36.2
	12	274 53.3	20 27.6	0 36.1
	14	274 52.6	20 28.0	0 36.0
	16	274 52.3	20 28.5	0 36.0
	18	274 52.5	20 29.2	0 36.0
	20	274 53.2	−20 30.0	−0 36.1
	22	274 54.3	20 30.9	0 36.2
	24	274 55.9	20 32.0	0 36.4
	26	274 57.9	20 33.2	0 36.6
	28	275 0.4	20 34.5	0 36.9
	30	275 3.4	−20 35.9	−0 37.3
Febr.	1	275 6.8	20 37.4	0 37.7
	3	275 10.7	20 39.1	0 38.2
	5	275 15.0	20 40.9	0 38.7
	7	275 19.7	20 42.8	0 39.3
	9	275 24.9	−20 44.8	−0 39.9
	11	275 30.5	20 47.0	0 40.6
	13	275 36.5	20 49.3	0 41.4
	15	275 42.9	20 51.6	0 42.2
	17	275 49.8	20 54.0	0 43.1
	19	275 57.0	−20 56.6	−0 44.0
	21	276 4.6	20 59.3	0 44.9
	23	276 12.7	21 2.0	0 45.9
	25	276 21.1	21 4.8	0 46.9
	27	276 29.9	21 7.7	0 48.0
	29	276 39.1	−21 10.7	−0 49.2
März	2	276 48.6	21 13.8	0 50.4
	4	276 58.4	21 16.9	0 51.6
	6	277 8.6	21 20.1	0 52.9
	8	277 19.1	21 23.3	0 54.2
	10	277 30.0	−21 26.6	−0 55.5
	12	277 41.2	21 30.0	0 56.9
	14	277 52.6	21 33.4	0 58.3
	16	278 4.4	21 36.9	0 59.8
	18	278 16.5	21 40.5	1 1.3
	20	278 28.9	−21 44.1	−1 2.8
	22	278 41.5	21 47.7	1 4.4
	24	278 54.4	21 51.3	1 6.0
	26	279 7.6	−21 55.0	−1 7.6

0^h		U	B	P
		° ′	° ′	° ′
Okt.	4	296 31.7	−24 58.4	−3 14.2
	6	296 27.3	24 57.6	3 13.7
	8	296 22.4	24 56.7	3 13.1
	10	296 17.1	24 55.8	3 12.5
	12	296 11.4	24 54.8	3 11.8
	14	296 5.3	−24 53.8	−3 11.1
	16	295 58.7	24 52.8	3 10.3
	18	295 51.8	24 51.7	3 9.5
	20	295 44.5	24 50.6	3 8.6
	22	295 36.9	24 49.5	3 7.7
	24	295 28.9	−24 48.3	−3 6.8
	26	295 20.6	24 47.1	3 5.8
	28	295 12.0	24 45.9	3 4.8
	30	295 3.1	24 44.7	3 3.8
Nov.	1	294 53.9	24 43.4	3 2.7
	3	294 44.5	−24 42.1	−3 1.6
	5	294 34.8	24 40.7	3 0.4
	7	294 24.9	24 39.4	2 59.2
	9	294 14.9	24 38.0	2 58.0
	11	294 4.7	24 36.6	2 56.8
	13	293 54.3	−24 35.2	−2 55.6
	15	293 43.8	24 33.8	2 54.4
	17	293 33.3	24 32.3	2 53.1
	19	293 22.6	24 30.8	2 51.9
	21	293 11.9	24 29.4	2 50.6
	23	293 1.2	−24 28.0	−2 49.3
	25	292 50.5	24 26.6	2 48.0
	27	292 39.8	24 25.2	2 46.7
	29	292 29.2	24 23.8	2 45.5
Dez.	1	292 18.7	24 22.5	2 44.2
	3	292 8.2	−24 21.2	−2 43.0
	5	291 57.8	24 19.9	2 41.7
	7	291 47.6	24 18.7	2 40.5
	9	291 37.6	24 17.5	2 39.3
	11	291 27.8	24 16.3	2 38.1
	13	291 18.2	−24 15.1	−2 37.0
	15	291 8.8	24 14.0	2 35.9
	17	290 59.7	24 12.9	2 34.8
	19	290 50.9	24 11.9	2 33.8
	21	290 42.4	24 10.9	2 32.8
	23	290 34.2	−24 9.9	−2 31.8
	25	290 26.3	24 9.0	2 30.8
	27	290 18.8	24 8.2	2 29.9
	29	290 11.7	24 7.5	2 29.0
	31	290 4.9	−24 6.9	−2 28.2

MIMAS.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	254° 48.7′	243.24°	1.47624	−10.46″
2	298 48.8	285.24	1.47483	10.43
4	342 48.9	327.24	1.47340	10.39
6	26 48.9	9.24	1.47195	10.36
8	70 49.0	51.24	1.47047	10.32
10	114 49.0	93.24	1.46896	−10.29
12	158 49.1	135.24	1.46744	10.25
14	202 49.2	177.24	1.46591	10.22
16	246 49.2	219.24	1.46436	10.19
18	290 49.3	261.24	1.46280	10.16
20	334 49.3	303.24	1.46122	−10.13
22	18 49.4	345.24	1.45963	10.10
24	62 49.5	27.24	1.45804	10.07
26	106 49.5	69.24	1.45645	10.04
28	150 49.6	111.24	1.45485	10.01
30	194 49.6	153.24	1.45325	− 9.99
Febr. 1	238 49.7	195.25	1.45166	9.96
3	282 49.7	237.25	1.45007	9.94
5	326 49.8	279.25	1.44848	9.92
7	10 49.8	321.25	1.44690	9.90
9	54 49.9	3.25	1.44533	− 9.88
11	98 49.9	45.25	1.44377	9.86
13	142 50.0	87.25	1.44223	9.84
15	186 50.0	129.25	1.44069	9.82
17	230 50.1	171.26	1.43916	9.80
19	274 50.1	213.26	1.43766	− 9.79
21	318 50.2	255.26	1.43618	9.78
23	2 50.2	297.26	1.43472	9.77
25	46 50.3	339.26	1.43328	9.76
27	90 50.3	21.26	1.43186	9.75
29	134 50.4	63.26	1.43046	− 9.74
März 2	178 50.4	105.26	1.42909	9.73
4	222 50.5	147.26	1.42775	9.72
6	266 50.5	189.26	1.42643	9.71
8	310 50.6	231.26	1.42514	9.71
10	354 50.6	273.26	1.42388	− 9.70
12	38 50.7	315.26	1.42265	9.70
14	82 50.7	357.26	1.42145	9.70
16	126 50.8	39.26	1.42028	9.70
18	170 50.8	81.26	1.41914	9.70
20	214 50.9	123.27	1.41804	− 9.70
22	258 50.9	165.27	1.41697	9.70
24	302 51.0	207.27	1.41593	9.70
26	346 51.0	249.27	1.41493	− 9.70

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt. 4	250° 51.0′	321.28°	1.48095	−12.78″
6	294 51.0	3.28	1.48229	12.81
8	338 50.9	45.28	1.48359	12.84
10	22 50.9	87.28	1.48486	12.87
12	66 50.9	129.28	1.48610	12.90
14	110 50.9	171.28	1.48729	−12.93
16	154 50.8	213.28	1.48844	12.95
18	198 50.8	255.28	1.48954	12.98
20	242 50.8	297.28	1.49059	13.00
22	286 50.8	339.28	1.49160	13.02
24	330 50.7	21.28	1.49255	−13.04
26	14 50.7	63.28	1.49345	13.06
28	58 50.7	105.28	1.49430	13.07
30	102 50.7	147.28	1.49510	13.09
Nov. 1	146 50.6	189.28	1.49583	13.10
3	190 50.6	231.28	1.49650	−13.11
5	234 50.6	273.28	1.49712	13.12
7	278 50.6	315.28	1.49767	13.12
9	322 50.5	357.28	1.49816	13.13
11	6 50.5	39.28	1.49858	13.13
13	50 50.5	81.28	1.49894	−13.13
15	94 50.5	123.27	1.49923	13.12
17	138 50.4	165.27	1.49946	13.12
19	182 50.4	207.27	1.49962	13.11
21	226 50.4	249.27	1.49971	13.10
23	270 50.4	291.27	1.49973	−13.09
25	314 50.3	333.27	1.49968	13.07
27	358 50.3	15.27	1.49957	13.06
29	42 50.3	57.27	1.49939	13.04
Dez. 1	86 50.3	99.27	1.49915	13.02
3	130 50.2	141.27	1.49884	−13.00
5	174 50.2	183.27	1.49846	12.98
7	218 50.2	225.27	1.49801	12.96
9	262 50.2	267.27	1.49750	12.94
11	306 50.1	309.27	1.49692	12.91
13	350 50.1	351.27	1.49628	−12.88
15	34 50.0	33.27	1.49558	12.85
17	78 50.0	75.26	1.49483	12.82
19	122 50.0	117.26	1.49402	12.79
21	166 49.9	159.26	1.49314	12.76
23	210 49.9	201.26	1.49221	−12.72
25	254 49.9	243.26	1.49123	12.69
27	298 49.8	285.26	1.49020	12.65
29	342 49.8	327.26	1.48912	12.61
31	26 49.8	9.26	1.48799	−12.57

MIMAS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+0° 0.0'—	9.99167	360°	90°	+2° 10.6'—	0.00016	270°
2	0 4.7	9.99167	358	92	2 10.4	0.00044	268
4	0 9.3	9.99169	356	94	2 10.1	0.00073	266
6	0 14.0	9.99172	354	96	2 9.6	0.00101	264
8	0 18.6	9.99175	352	98	2 8.9	0.00130	262
10	+0 23.2—	9.99180	350	100	+2 8.1—	0.00158	260
12	0 27.8	9.99186	348	102	2 7.1	0.00186	258
14	0 32.3	9.99193	346	104	2 6.0	0.00214	256
16	0 36.8	9.99201	344	106	2 4.7	0.00241	254
18	0 41.3	9.99210	342	108	2 3.3	0.00268	252
20	+0 45.7—	9.99220	340	110	+2 1.7—	0.00295	250
22	0 50.0	9.99230	338	112	2 0.0	0.00321	248
24	0 54.3	9.99242	336	114	1 58.2	0.00347	246
26	0 58.5	9.99255	334	116	1 56.2	0.00373	244
28	1 2.6	9.99269	332	118	1 54.0	0.00398	242
30	+1 6.7—	9.99284	330	120	+1 51.8—	0.00422	240
32	1 10.6	9.99299	328	122	1 49.4	0.00446	238
34	1 14.5	9.99316	326	124	1 46.9	0.00469	236
36	1 18.3	9.99333	324	126	1 44.2	0.00492	234
38	1 22.0	9.99351	322	128	1 41.4	0.00514	232
40	+1 25.5—	9.99370	320	130	+1 38.6—	0.00536	230
42	1 29.0	9.99390	318	132	1 35.6	0.00557	228
44	1 32.3	9.99410	316	134	1 32.4	0.00577	226
46	1 35.5	9.99431	314	136	1 29.2	0.00597	224
48	1 38.6	9.99453	312	138	1 25.9	0.00616	222
50	+1 41.6—	9.99476	310	140	+1 22.5—	0.00634	220
52	1 44.5	9.99499	308	142	1 18.9	0.00651	218
54	1 47.2	9.99523	306	144	1 15.3	0.00668	216
56	1 49.7	9.99547	304	146	1 11.6	0.00683	214
58	1 52.2	9.99572	302	148	1 7.9	0.00698	212
60	+1 54.5—	9.99598	300	150	+1 4.0—	0.00713	210
62	1 56.6	9.99623	298	152	1 0.1	0.00726	208
64	1 58.6	9.99650	296	154	0 56.1	0.00738	206
66	2 0.5	9.99676	294	156	0 52.0	0.00750	204
68	2 2.2	9.99704	292	158	0 47.9	0.00760	202
70	+2 3.7—	9.99731	290	160	+0 43.7—	0.00770	200
72	2 5.1	9.99759	288	162	0 39.5	0.00779	198
74	2 6.4	9.99787	286	164	0 35.2	0.00787	196
76	2 7.5	9.99815	284	166	0 30.9	0.00794	194
78	2 8.4	9.99843	282	168	0 26.5	0.00800	192
80	+2 9.2—	9.99872	280	170	+0 22.2—	0.00805	190
82	2 9.8	9.99900	278	172	0 17.8	0.00810	188
84	2 10.2	9.99929	276	174	0 13.3	0.00813	186
86	2 10.5	9.99958	274	176	0 8.9	0.00815	184
88	2 10.6	9.99987	272	178	0 4.5	0.00817	182
90	+2 10.6—	0.00016	270	180	+0 0.0—	0.00817	180

ENCELADUS.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	64° 14.8′	313.7°	1.58445	−13.43″
2	229 42.6	118.5	1.58304	13.38
4	35 10.5	283.3	1.58161	13.33
6	200 38.4	88.1	1.58016	13.29
8	6 6.3	252.9	1.57868	13.24
10	171 34.2	57.7	1.57717	−13.20
12	337 2.1	222.5	1.57565	13.16
14	142 29.9	27.2	1.57412	13.12
16	307 57.8	192.0	1.57257	13.08
18	113 25.7	356.8	1.57101	13.04
20	278 53.6	161.6	1.56943	−13.00
22	84 21.5	326.4	1.56784	12.96
24	249 49.4	131.2	1.56625	12.92
26	55 17.2	296.0	1.56466	12.89
28	220 45.1	100.8	1.56306	12.85
30	26 13.0	265.5	1.56146	−12.82
Febr. 1	191 40.9	70.3	1.55987	12.79
3	357 8.7	235.1	1.55828	12.76
5	162 36.6	39.9	1.55669	12.73
7	328 4.5	204.7	1.55511	12.70
9	133 32.4	9.5	1.55354	−12.67
11	299 0.2	174.3	1.55198	12.65
13	104 28.1	339.1	1.55044	12.62
15	269 55.9	143.8	1.54890	12.60
17	75 23.8	308.6	1.54737	12.58
19	240 51.7	113.4	1.54587	−12.56
21	46 19.5	278.2	1.54439	12.54
23	211 47.4	83.0	1.54293	12.53
25	17 15.3	247.8	1.54149	12.51
27	182 43.1	52.6	1.54007	12.50
29	348 11.0	217.4	1.53867	−12.49
März 2	153 38.8	22.1	1.53730	12.48
4	319 6.7	186.9	1.53596	12.47
6	124 34.6	351.7	1.53464	12.46
8	290 2.4	156.5	1.53335	12.45
10	95 30.3	321.3	1.53209	−12.45
12	260 58.1	126.1	1.53086	12.45
14	66 26.0	290.9	1.52966	12.44
16	231 53.8	95.7	1.52849	12.44
18	37 21.7	260.4	1.52735	12.44
20	202 49.5	65.2	1.52625	−12.44
22	8 17.4	230.0	1.52518	12.44
24	173 45.2	34.8	1.52414	12.45
26	339 13.1	199.6	1.52314	−12.45
Okt. 4	23° 41.4′	179.3°	1.58916	−16.39″
6	189 9.2	344.1	1.59050	16.43
8	354 37.0	148.9	1.59180	16.47
10	160 4.7	313.7	1.59307	16.51
12	325 32.5	118.4	1.59431	16.55
14	131 0.3	283.2	1.59550	−16.59
16	296 28.1	88.0	1.59665	16.62
18	101 55.8	252.8	1.59775	16.65
20	267 23.6	57.6	1.59880	16.68
22	72 51.4	222.4	1.59981	16.71
24	238 19.1	27.2	1.60076	−16.73
26	43 46.9	192.0	1.60166	16.75
28	209 14.7	356.7	1.60251	16.77
30	14 42.4	161.5	1.60331	16.79
Nov. 1	180 10.2	326.3	1.60404	16.80
3	345 37.9	131.1	1.60471	−16.82
5	151 5.7	295.9	1.60533	16.83
7	316 33.5	100.7	1.60588	16.84
9	122 1.3	265.4	1.60637	16.84
11	287 29.0	70.2	1.60679	16.84
13	92 56.8	235.0	1.60715	−16.84
15	258 24.6	39.8	1.60744	16.83
17	63 52.4	204.5	1.60767	16.83
19	229 20.1	9.3	1.60783	16.82
21	34 47.9	174.1	1.60792	16.81
23	200 15.7	338.9	1.60794	−16.79
25	5 43.4	143.7	1.60789	16.77
27	171 11.2	308.5	1.60778	16.75
29	336 39.0	113.2	1.60760	16.73
Dez. 1	142 6.7	278.0	1.60736	16.71
3	307 34.5	82.8	1.60705	−16.68
5	113 2.2	247.6	1.60667	16.66
7	278 30.0	52.4	1.60622	16.63
9	83 57.8	217.2	1.60571	16.60
11	249 25.5	22.0	1.60513	16.56
13	54 53.3	186.8	1.60449	−16.52
15	220 21.1	351.5	1.60379	16.48
17	25 48.8	156.3	1.60304	16.44
19	191 16.6	321.1	1.60223	16.40
21	356 44.3	125.9	1.60135	16.36
23	162 12.1	290.7	1.60042	−16.31
25	327 39.9	95.5	1.59944	16.27
27	133 7.6	260.3	1.59841	16.22
29	298 35.4	65.1	1.59733	16.17
31	104 3.2	229.8	1.59620	−16.12

ENCELADUS.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+ 0.0′ −	9.99800	360°	90°	+31.6′ −	0.00001	270°
2	1.1	9.99800	358	92	31.6	0.00008	268
4	2.2	9.99800	356	94	31.5	0.00015	266
6	3.3	9.99801	354	96	31.4	0.00022	264
8	4.4	9.99802	352	98	31.3	0.00029	262
10	+ 5.5 −	9.99803	350	100	+31.1 −	0.00035	260
12	6.6	9.99804	348	102	30.9	0.00042	258
14	7.7	9.99806	346	104	30.6	0.00049	256
16	8.8	9.99808	344	106	30.3	0.00056	254
18	9.8	9.99810	342	108	30.0	0.00062	252
20	+10.9 −	9.99812	340	110	+29.7 −	0.00069	250
22	11.9	9.99814	338	112	29.3	0.00075	248
24	12.9	9.99817	336	114	28.8	0.00082	246
26	13.9	9.99820	334	116	28.3	0.00088	244
28	14.9	9.99823	332	118	27.8	0.00094	242
30	+15.9 −	9.99827	330	120	+27.3 −	0.00100	240
32	16.8	9.99830	328	122	26.7	0.00106	238
34	17.8	9.99834	326	124	26.1	0.00112	236
36	18.7	9.99838	324	126	25.5	0.00118	234
38	19.6	9.99842	322	128	24.8	0.00123	232
40	+20.4 −	9.99847	320	130	+24.1 −	0.00129	230
42	21.3	9.99852	318	132	23.4	0.00134	228
44	22.1	9.99856	316	134	22.7	0.00139	226
46	22.8	9.99861	314	136	21.9	0.00144	224
48	23.6	9.99866	312	138	21.1	0.00148	222
50	+24.3 −	9.99872	310	140	+20.2 −	0.00153	220
52	25.0	9.99877	308	142	19.4	0.00157	218
54	25.7	9.99883	306	144	18.5	0.00162	216
56	26.3	9.99889	304	146	17.6	0.00166	214
58	26.9	9.99895	302	148	16.7	0.00169	212
60	+27.5 −	9.99901	300	150	+15.7 −	0.00173	210
62	28.0	9.99907	298	152	14.8	0.00176	208
64	28.5	9.99913	296	154	13.8	0.00179	206
66	29.0	9.99919	294	156	12.8	0.00182	204
68	29.4	9.99926	292	158	11.8	0.00185	202
70	+29.8 −	9.99932	290	160	+10.8 −	0.00187	200
72	30.1	9.99939	288	162	9.7	0.00190	198
74	30.4	9.99946	286	164	8.7	0.00192	196
76	30.7	9.99952	284	166	7.6	0.00193	194
78	31.0	9.99959	282	168	6.5	0.00195	192
80	+31.2 −	9.99966	280	170	+ 5.5 −	0.00196	190
82	31.3	9.99973	278	172	4.4	0.00197	188
84	31.5	9.99980	276	174	3.3	0.00198	186
86	31.6	9.99987	274	176	2.2	0.00199	184
88	31.6	9.99994	272	178	1.1	0.00199	182
90	+31.6 −	0.00001	270	180	+ 0.0 −	0.00199	180

TETHYS.

0^h		L	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan.	0	299° 23.6'	1.67715	−16.62"
	2	320 47.3	1.67574	16.56
	4	342 11.0	1.67431	16.50
	6	3 34.7	1.67286	16.45
	8	24 58.4	1.67138	16.39
	10	46 22.1	1.66987	−16.34
	12	67 45.8	1.66835	16.29
	14	89 9.5	1.66682	16.24
	16	110 33.3	1.66527	16.19
	18	131 57.0	1.66371	16.14
	20	153 20.7	1.66213	−16.09
	22	174 44.4	1.66054	16.04
	24	196 8.1	1.65895	15.99
	26	217 31.8	1.65736	15.95
	28	238 55.5	1.65576	15.91
	30	260 19.2	1.65416	−15.87
Febr.	1	281 43.0	1.65257	15.83
	3	303 6.7	1.65098	15.79
	5	324 30.4	1.64939	15.75
	7	345 54.1	1.64781	15.72
	9	7 17.8	1.64624	−15.69
	11	28 41.5	1.64468	15.66
	13	50 5.2	1.64314	15.63
	15	71 28.9	1.64160	15.60
	17	92 52.7	1.64007	15.57
	19	114 16.4	1.63857	−15.55
	21	135 40.1	1.63709	15.53
	23	157 3.8	1.63563	15.51
	25	178 27.5	1.63419	15.49
	27	199 51.2	1.63277	15.48
	29	221 14.9	1.63137	−15.46
März	2	242 38.6	1.63000	15.45
	4	264 2.3	1.62866	15.44
	6	285 26.0	1.62734	15.43
	8	306 49.7	1.62605	15.42
	10	328 13.4	1.62479	−15.41
	12	349 37.1	1.62356	15.41
	14	11 0.8	1.62236	15.40
	16	32 24.5	1.62119	15.40
	18	53 48.2	1.62005	15.40
	20	75 12.0	1.61895	−15.40
	22	96 35.7	1.61788	15.40
	24	117 59.4	1.61684	15.41
	26	139 23.1	1.61584	−15.41

0^h		L	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt.	4	33° 18.0'	1.68186	−20.29"
	6	54 41.7	1.68320	20.35
	8	76 5.4	1.68450	20.40
	10	97 29.1	1.68577	20.45
	12	118 52.8	1.68701	20.49
	14	140 16.6	1.68820	−20.53
	16	161 40.3	1.68935	20.57
	18	183 4.0	1.69045	20.61
	20	204 27.7	1.69150	20.65
	22	225 51.4	1.69251	20.68
	24	247 15.1	1.69346	−20.71
	26	268 38.8	1.69436	20.74
	28	290 2.5	1.69521	20.76
	30	311 26.3	1.69601	20.78
Nov.	1	332 50.0	1.69674	20.80
	3	354 13.7	1.69741	−20.82
	5	15 37.4	1.69803	20.83
	7	37 1.1	1.69858	20.84
	9	58 24.8	1.69907	20.85
	11	79 48.5	1.69949	20.85
	13	101 12.2	1.69985	−20.85
	15	122 36.0	1.70014	20.84
	17	143 59.7	1.70037	20.84
	19	165 23.4	1.70053	20.83
	21	186 47.1	1.70062	20.81
	23	208 10.8	1.70064	−20.79
	25	229 34.5	1.70059	20.77
	27	250 58.2	1.70048	20.75
	29	272 21.9	1.70030	20.72
Dez.	1	293 45.7	1.70006	20.69
	3	315 9.4	1.69975	−20.66
	5	336 33.1	1.69937	20.62
	7	357 56.8	1.69892	20.58
	9	19 20.5	1.69841	20.54
	11	40 44.2	1.69783	20.49
	13	62 7.9	1.69719	−20.45
	15	83 31.6	1.69649	20.40
	17	104 55.3	1.69574	20.35
	19	126 19.0	1.69493	20.30
	21	147 42.7	1.69405	20.25
	23	169 6.4	1.69312	−20.19
	25	190 30.1	1.69214	20.14
	27	211 53.8	1.69111	20.08
	29	233 17.5	1.69003	20.02
	31	254 41.2	1.68890	−19.96

DIONE.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	87° 9.0′	62.7°	1.78462	−21.29″
2	350 13.2	325.6	1.78321	21.22
4	253 17.3	228.5	1.78178	21.14
6	156 21.5	131.4	1.78033	21.07
8	59 25.7	34.3	1.77885	21.00
10	322 29.9	297.2	1.77734	−20.93
12	225 34.0	200.1	1.77582	20.86
14	128 38.2	103.0	1.77429	20.79
16	31 42.4	5.9	1.77274	20.72
18	294 46.6	268.8	1.77118	20.66
20	197 50.7	171.7	1.76960	−20.60
22	100 54.9	74.6	1.76801	20.54
24	3 59.1	337.5	1.76642	20.48
26	267 3.3	240.4	1.76483	20.43
28	170 7.4	143.3	1.76323	20.37
30	73 11.6	46.2	1.76163	−20.32
Febr. 1	336 15.8	309.1	1.76004	20.27
3	239 20.0	212.0	1.75845	20.22
5	142 24.1	114.9	1.75686	20.17
7	45 28.3	17.8	1.75528	20.13
9	308 32.5	280.7	1.75371	−20.09
11	211 36.7	183.6	1.75215	20.05
13	114 40.9	86.5	1.75061	20.01
15	17 45.0	349.4	1.74907	19.98
17	280 49.2	252.3	1.74754	19.95
19	183 53.4	155.2	1.74604	−19.92
21	86 57.6	58.1	1.74456	19.89
23	350 1.8	321.0	1.74310	19.86
25	253 6.0	223.9	1.74166	19.83
27	156 10.2	126.8	1.74024	19.81
29	59 14.3	29.7	1.73884	−19.79
März 2	322 18.5	292.6	1.73747	19.78
4	225 22.7	195.5	1.73613	19.77
6	128 26.9	98.4	1.73481	19.76
8	31 31.0	1.3	1.73352	19.75
10	294 35.2	264.2	1.73226	−19.74
12	197 39.4	167.1	1.73103	19.73
14	100 43.6	70.0	1.72983	19.73
16	3 47.7	332.9	1.72866	19.72
18	266 51.9	235.8	1.72752	19.72
20	169 56.1	138.7	1.72642	−19.72
22	73 0.3	41.6	1.72535	19.73
24	336 4.4	304.5	1.72431	19.73
26	239 8.6	207.4	1.72331	−19.74

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt. 4	293° 49.0′	245.8°	1.78933	−25.99″
6	196 53.2	148.7	1.79067	26.06
8	99 57.4	51.6	1.79197	26.12
10	3 1.6	314.5	1.79324	26.18
12	266 5.8	217.4	1.79448	26.24
14	169 9.9	120.3	1.79567	−26.30
16	72 14.1	23.2	1.79682	26.35
18	335 18.3	286.1	1.79792	26.40
20	238 22.5	189.0	1.79897	26.45
22	141 26.7	91.9	1.79998	26.49
24	44 30.9	354.8	1.80093	−26.53
26	307 35.1	257.7	1.80183	26.56
28	210 39.2	160.6	1.80268	26.59
30	113 43.4	63.5	1.80348	26.62
Nov. 1	16 47.6	326.4	1.80421	26.64
3	279 51.8	229.3	1.80488	−26.66
5	182 56.0	132.2	1.80550	26.68
7	86 0.2	35.1	1.80605	26.69
9	349 4.4	298.0	1.80654	26.70
11	252 8.6	200.9	1.80696	26.70
13	155 12.8	103.8	1.80732	−26.70
15	58 16.9	6.7	1.80761	26.69
17	321 21.1	269.6	1.80784	26.68
19	224 25.3	172.5	1.80800	26.67
21	127 29.5	75.4	1.80809	26.65
23	30 33.7	338.3	1.80811	−26.63
25	293 37.9	241.2	1.80806	26.60
27	196 42.1	144.1	1.80795	26.57
29	99 46.3	47.0	1.80777	26.53
Dez. 1	2 50.4	309.9	1.80753	26.49
3	265 54.6	212.8	1.80722	−26.45
5	168 58.8	115.7	1.80684	26.41
7	72 3.0	18.6	1.80639	26.36
9	335 7.2	281.5	1.80588	26.31
11	238 11.4	184.4	1.80530	26.25
13	141 15.6	87.3	1.80466	−26.19
15	44 19.8	350.2	1.80396	26.13
17	307 23.9	253.1	1.80321	26.07
19	210 28.1	156.0	1.80240	26.00
21	113 32.3	58.9	1.80152	25.93
23	16 36.5	321.8	1.80059	−25.86
25	279 40.7	224.7	1.79961	25.79
27	182 44.9	127.6	1.79858	25.71
29	85 49.1	30.5	1.79750	25.64
31	348 53.2	293.4	1.79637	25.56

DIONE.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+ 0.0 − ′	9.99913	360°	90°	+13.8 − ′	0.00000	270°
2	0.5	9.99913	358	92	13.7	0.00003	268
4	1.0	9.99913	356	94	13.7	0.00006	266
6	1.4	9.99913	354	96	13.7	0.00009	264
8	1.9	9.99914	352	98	13.6	0.00012	262
10	+ 2.4 −	9.99914	350	100	+13.5 −	0.00015	260
12	2.9	9.99915	348	102	13.4	0.00018	258
14	3.3	9.99916	346	104	13.3	0.00021	256
16	3.8	9.99916	344	106	13.2	0.00024	254
18	4.3	9.99917	342	108	13.1	0.00027	252
20	+ 4.7 −	9.99918	340	110	+12.9 −	0.00030	250
22	5.2	9.99919	338	112	12.7	0.00033	248
24	5.6	9.99921	336	114	12.5	0.00035	246
26	6.0	9.99922	334	116	12.3	0.00038	244
28	6.5	9.99923	332	118	12.1	0.00041	242
30	+ 6.9 −	9.99925	330	120	+11.9 −	0.00044	240
32	7.3	9.99926	328	122	11.6	0.00046	238
34	7.7	9.99928	326	124	11.4	0.00049	236
36	8.1	9.99930	324	126	11.1	0.00051	234
38	8.5	9.99931	322	128	10.8	0.00053	232
40	+ 8.9 −	9.99933	320	130	+10.5 −	0.00056	230
42	9.2	9.99935	318	132	10.2	0.00058	228
44	9.6	9.99937	316	134	9.9	0.00060	226
46	9.9	9.99940	314	136	9.5	0.00062	224
48	10.2	9.99942	312	138	9.2	0.00065	222
50	+10.6 −	9.99944	310	140	+ 8.8 −	0.00067	220
52	10.9	9.99947	308	142	8.4	0.00068	218
54	11.1	9.99949	306	144	8.1	0.00070	216
56	11.4	9.99951	304	146	7.7	0.00072	214
58	11.7	9.99954	302	148	7.3	0.00074	212
60	+11.9 −	9.99957	300	150	+ 6.9 −	0.00075	210
62	12.2	9.99959	298	152	6.4	0.00077	208
64	12.4	9.99962	296	154	6.0	0.00078	206
66	12.6	9.99965	294	156	5.6	0.00079	204
68	12.8	9.99967	292	158	5.1	0.00080	202
70	+12.9 −	9.99970	290	160	+ 4.7 −	0.00081	200
72	13.1	9.99973	288	162	4.2	0.00082	198
74	13.2	9.99976	286	164	3.8	0.00083	196
76	13.3	9.99979	284	166	3.3	0.00084	194
78	13.4	9.99982	282	168	2.9	0.00085	192
80	+13.5 −	9.99985	280	170	+ 2.4 −	0.00085	190
82	13.6	9.99988	278	172	1.9	0.00086	188
84	13.7	9.99991	276	174	1.4	0.00086	186
86	13.7	9.99994	274	176	1.0	0.00086	184
88	13.7	9.99997	272	178	0.5	0.00087	182
90	+13.8 −	0.00000	270	180	+ 0.0 −	0.00087	180

RHEA.

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Jan. 0	334° 38.5	285.6	1.92966	−29.73
2	134 1.3	85.0	1.92825	29.62
4	293 24.1	244.3	1.92682	29.52
6	92 46.9	43.6	1.92537	29.42
8	252 9.7	202.9	1.92389	29.32
10	51 32.5	2.2	1.92238	−29.23
12	210 55.3	161.6	1.92086	29.13
14	10 18.1	320.9	1.91933	29.04
16	169 40.9	120.2	1.91778	28.95
18	329 3.7	279.6	1.91622	28.86
20	128 26.5	78.9	1.91464	−28.77
22	287 49.3	238.2	1.91305	28.69
24	87 12.1	37.5	1.91146	28.61
26	246 34.9	196.8	1.90987	28.53
28	45 57.7	356.2	1.90827	28.45
30	205 20.5	155.5	1.90667	−28.38
Febr. 1	4 43.3	314.8	1.90508	28.31
3	164 6.1	114.2	1.90349	28.24
5	323 28.9	273.5	1.90190	28.18
7	122 51.7	72.8	1.90032	28.12
9	282 14.5	232.1	1.89875	−28.06
11	81 37.3	31.4	1.89719	28.01
13	241 0.1	190.8	1.89565	27.95
15	40 22.9	350.1	1.89411	27.90
17	199 45.7	149.4	1.89258	27.85
19	359 8.5	308.8	1.89108	−27.81
21	158 31.3	108.1	1.88960	27.77
23	317 54.1	267.4	1.88814	27.74
25	117 16.9	66.7	1.88670	27.71
27	276 39.7	226.0	1.88528	27.68
29	76 2.5	25.4	1.88388	−27.65
März 2	235 25.3	184.7	1.88251	27.63
4	34 48.1	344.0	1.88117	27.61
6	194 10.9	143.4	1.87985	27.59
8	353 33.7	302.7	1.87856	27.57
10	152 56.5	102.0	1.87730	−27.56
12	312 19.3	261.3	1.87607	27.55
14	111 42.1	60.6	1.87487	27.55
16	271 4.9	220.0	1.87370	27.54
18	70 27.7	19.3	1.87256	27.54
20	229 50.5	178.6	1.87146	−27.54
22	29 13.3	338.0	1.87039	27.54
24	188 36.1	137.3	1.86935	27.55
26	347 58.9	296.6	1.86835	−27.56

0^h	L	M	$\log \frac{a(\rho)}{\rho}$	$\frac{a(\rho)}{\rho} \sin B$
Okt. 4	168° 26.2	111.8	1.93437	−36.30
6	327 49.0	271.1	1.93571	36.39
8	127 11.8	70.4	1.93701	36.48
10	286 34.6	229.8	1.93828	36.57
12	85 57.4	29.1	1.93952	36.65
14	245 20.1	188.4	1.94071	−36.73
16	44 42.9	347.7	1.94186	36.80
18	204 5.7	147.1	1.94296	36.87
20	3 28.5	306.4	1.94401	36.93
22	162 51.3	105.7	1.94502	36.99
24	322 14.1	265.0	1.94597	−37.05
26	121 36.9	64.4	1.94687	37.10
28	280 59.7	223.7	1.94772	37.14
30	80 22.5	23.0	1.94852	37.18
Nov. 1	239 45.3	182.3	1.94925	37.21
3	39 8.1	341.7	1.94992	−37.24
5	198 30.9	141.0	1.95054	37.26
7	357 53.7	300.3	1.95109	37.27
9	157 16.5	99.6	1.95158	37.28
11	316 39.3	259.0	1.95200	37.28
13	116 2.1	58.3	1.95236	−37.28
15	275 24.9	217.6	1.95265	37.27
17	74 47.7	16.9	1.95288	37.26
19	234 10.5	176.3	1.95304	37.24
21	33 33.3	335.6	1.95313	37.21
23	192 56.1	134.9	1.95315	−37.18
25	352 18.9	294.2	1.95310	37.14
27	151 41.7	93.6	1.95299	37.10
29	311 4.5	252.9	1.95281	37.05
Dez. 1	110 27.3	52.2	1.95257	37.00
3	269 50.1	211.5	1.95226	−36.94
5	69 12.9	10.9	1.95188	36.88
7	228 35.7	170.2	1.95143	36.81
9	27 58.5	329.5	1.95092	36.74
11	187 21.3	128.8	1.95034	36.66
13	346 44.1	288.2	1.94970	−36.58
15	146 6.8	87.5	1.94900	36.50
17	305 29.6	246.8	1.94825	36.41
19	104 52.4	46.1	1.94744	36.32
21	264 15.2	205.5	1.94656	36.22
23	63 38.0	4.8	1.94563	−36.12
25	223 0.8	164.1	1.94465	36.02
27	22 23.6	323.4	1.94362	35.91
29	181 46.4	122.8	1.94254	35.81
31	341 9.2	282.1	1.94141	−35.70

RHEA.

M	$v - M$	$\log \frac{r}{a}$	M	M	$v - M$	$\log \frac{r}{a}$	M
0°	+0.0′ —	9.99961	360°	90°	+6.2′ —	0.00000	270°
2	0.2	9.99961	358	92	6.2	0.00001	268
4	0.4	9.99961	356	94	6.2	0.00003	266
6	0.6	9.99961	354	96	6.2	0.00004	264
8	0.9	9.99961	352	98	6.1	0.00005	262
10	+1.1 —	9.99961	350	100	+6.1 —	0.00007	260
12	1.3	9.99962	348	102	6.1	0.00008	258
14	1.5	9.99962	346	104	6.0	0.00009	256
16	1.7	9.99962	344	106	5.9	0.00011	254
18	1.9	9.99963	342	108	5.9	0.00012	252
20	+2.1 —	9.99963	340	110	+5.8 —	0.00013	250
22	2.3	9.99964	338	112	5.7	0.00015	248
24	2.5	9.99964	336	114	5.7	0.00016	246
26	2.7	9.99965	334	116	5.6	0.00017	244
28	2.9	9.99966	332	118	5.5	0.00018	242
30	+3.1 —	9.99966	330	120	+5.4 —	0.00019	240
32	3.3	9.99967	328	122	5.2	0.00021	238
34	3.5	9.99968	326	124	5.1	0.00022	236
36	3.6	9.99968	324	126	5.0	0.00023	234
38	3.8	9.99969	322	128	4.9	0.00024	232
40	+4.0 —	9.99970	320	130	+4.7 —	0.00025	230
42	4.1	9.99971	318	132	4.6	0.00026	228
44	4.3	9.99972	316	134	4.5	0.00027	226
46	4.5	9.99973	314	136	4.3	0.00028	224
48	4.6	9.99974	312	138	4.1	0.00029	222
50	+4.7 —	9.99975	310	140	+4.0 —	0.00030	220
52	4.9	9.99976	308	142	3.8	0.00031	218
54	5.0	9.99977	306	144	3.6	0.00032	216
56	5.1	9.99978	304	146	3.5	0.00032	214
58	5.2	9.99979	302	148	3.3	0.00033	212
60	+5.4 —	9.99980	300	150	+3.1 —	0.00034	210
62	5.5	9.99982	298	152	2.9	0.00034	208
64	5.6	9.99983	296	154	2.7	0.00035	206
66	5.7	9.99984	294	156	2.5	0.00036	204
68	5.7	9.99985	292	158	2.3	0.00036	202
70	+5.8 —	9.99987	290	160	+2.1 —	0.00037	200
72	5.9	9.99988	288	162	1.9	0.00037	198
74	5.9	9.99989	286	164	1.7	0.00037	196
76	6.0	9.99991	284	166	1.5	0.00038	194
78	6.1	9.99992	282	168	1.3	0.00038	192
80	+6.1 —	9.99993	280	170	+1.1 —	0.00038	190
82	6.1	9.99995	278	172	0.9	0.00039	188
84	6.2	9.99996	276	174	0.6	0.00039	186
86	6.2	9.99997	274	176	0.4	0.00039	184
88	6.2	9.99999	272	178	0.2	0.00039	182
90	+6.2 —	0.00000	270	180	+0.0 —	0.00039	180

Bewegung der mittleren Länge *L*.

Zeit	Mimas	Enceladus	Tethys	Dione	Rhea
1^d	22° 0.′0	262° 43.′9	190° 41.′9	131° 32.′1	79° 41.′4
1^h	15 55.0	10 56.8	7 56.7	5 28.8	3 19.2
2	31 50.0	21 53.7	15 53.5	10 57.7	6 38.4
3	47 45.0	32 50.5	23 50.2	16 26.5	9 57.7
4	63 40.0	43 47.3	31 47.0	21 55.3	13 16.9
5	79 35.0	54 44.1	39 43.7	27 24.2	16 36.1
6	95 30.0	65 41.0	47 40.5	32 53.0	19 55.3
7	111 25.0	76 37.8	55 37.2	38 21.9	23 14.6
8	127 20.0	87 34.6	63 34.0	43 50.7	26 33.8
9	143 15.0	98 31.5	71 30.7	49 19.5	29 53.0
10	159 10.0	109 28.3	79 27.5	54 48.4	33 12.2
11	175 5.0	120 25.1	87 24.2	60 17.2	36 31.5
12	191 0.0	131 22.0	95 20.9	65 46.0	39 50.7
13	206 55.0	142 18.8	103 17.7	71 14.9	43 9.9
14	222 50.0	153 15.6	111 14.4	76 43.7	46 29.1
15	238 45.0	164 12.4	119 11.2	82 12.6	49 48.4
16	254 40.0	175 9.3	127 7.9	87 41.4	53 7.6
17	270 35.0	186 6.1	135 4.7	93 10.2	56 26.8
18	286 30.0	197 2.9	143 1.4	98 39.1	59 46.0
19	302 25.0	207 59.8	150 58.2	104 7.9	63 5.3
20	318 20.0	218 56.6	158 54.9	109 36.7	66 24.5
21	334 15.0	229 53.4	166 51.7	115 5.6	69 43.7
22	350 10.0	240 50.2	174 48.4	120 34.4	73 2.9
23	6 5.0	251 47.1	182 45.2	126 3.3	76 22.2
1^m	0 15.9	0 10.9	0 7.9	0 5.5	0 3.3
2	0 31.8	0 21.9	0 15.9	0 11.0	0 6.6
3	0 47.8	0 32.8	0 23.8	0 16.4	0 10.0
4	1 3.7	0 43.8	0 31.8	0 21.9	0 13.3
5	1 19.6	0 54.7	0 39.7	0 27.4	0 16.6
6	1 35.5	1 5.7	0 47.6	0 32.9	0 19.9
7	1 51.4	1 16.6	0 55.6	0 38.4	0 23.2
8	2 7.4	1 27.6	1 3.5	0 43.8	0 26.6
9	2 23.3	1 38.5	1 11.5	0 49.3	0 29.9
10	2 39.2	1 49.5	1 19.4	0 54.8	0 33.2
20	5 18.3	3 38.9	2 38.9	1 49.6	1 6.4
30	7 57.5	5 28.4	3 58.3	2 44.4	1 39.6
40	10 36.7	7 17.9	5 17.8	3 39.2	2 12.8
50	13 15.8	9 7.3	6 37.2	4 34.0	2 46.0
10^s	0 2.6	0 1.8	0 1.3	0 0.9	0 0.5
20	0 5.3	0 3.6	0 2.6	0 1.8	0 1.1
30	0 7.9	0 5.4	0 3.9	0 2.7	0 1.6
40	0 10.6	0 7.3	0 5.3	0 3.7	0 2.2
50	0 13.2	0 9.1	0 6.6	0 4.6	0 2.7

Bewegung der mittleren Anomalie M.					$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale.						
Zeit	Mimas	Encel.	Dione	Rhea	$u-U$	Mimas	Encel.	Tethys	Dione	Rhea	$u-U$
1d	21.00°	262.4°	131.5°	79.7°	0°	−5	−7	−9	−11	−16	360°
					4	−5	−7	−9	−11	−16	356
1h	15.87	10.9	5.5	3.3	8	−5	−7	−9	−11	−16	352
2	31.75	21.9	11.0	6.6	12	−5	−6	−8	−10	−15	348
3	47.62	32.8	16.4	10.0	16	−5	−6	−8	−10	−15	344
4	63.50	43.7	21.9	13.3	20	−5	−6	−8	−10	−15	340
5	79.37	54.7	27.4	16.6	24	−5	−6	−8	−10	−14	336
6	95.25	65.6	32.9	19.9	28	−5	−6	−8	−9	−14	332
7	111.12	76.5	38.4	23.2	32	−4	−5	−7	−9	−13	328
8	127.00	87.5	43.8	26.6	36	−4	−5	−7	−8	−13	324
9	142.87	98.4	49.3	29.9	40	−4	−5	−7	−8	−12	320
10	158.75	109.3	54.8	33.2	44	−4	−5	−6	−7	−11	316
11	174.62	120.3	60.3	36.5	48	−4	−4	−6	−7	−10	312
12	190.50	131.2	65.7	39.8	52	−3	−4	−5	−6	−10	308
13	206.37	142.1	71.2	43.2	56	−3	−3	−5	−6	−9	304
14	222.25	153.1	76.7	46.5	60	−3	−3	−4	−5	−8	300
15	238.12	164.0	82.2	49.8	64	−3	−3	−4	−4	−7	296
16	254.00	174.9	87.7	53.1	68	−2	−2	−3	−4	−6	292
17	269.87	185.9	93.1	56.5	72	−2	−2	−3	−3	−5	288
18	285.75	196.8	98.6	59.8	76	−1	−1	−2	−3	−4	284
19	301.62	207.7	104.1	63.1	80	−1	−1	−2	−2	−3	280
20	317.50	218.7	109.6	66.4	84	−1	−1	−1	−1	−2	276
21	333.37	229.6	115.1	69.7	88	0	0	0	0	−1	272
22	349.25	240.5	120.5	73.1	92	0	0	0	0	+1	268
23	5.12	251.5	126.0	76.4	96	+1	+1	+1	+1	+2	264
					100	+1	+1	+2	+2	+3	260
1m	0.26	0.2	0.1	0.0	104	+1	+1	+2	+3	+4	256
2	0.53	0.4	0.2	0.1	108	+2	+2	+3	+3	+5	252
3	0.79	0.5	0.3	0.1	112	+2	+2	+3	+4	+6	248
4	1.06	0.7	0.4	0.2	116	+3	+3	+4	+4	+7	244
5	1.32	0.9	0.4	0.2	120	+3	+3	+4	+5	+8	240
6	1.58	1.1	0.5	0.3	124	+3	+3	+5	+6	+9	236
7	1.85	1.3	0.6	0.3	128	+3	+4	+5	+6	+10	232
8	2.11	1.4	0.7	0.4	132	+4	+4	+6	+7	+10	228
9	2.38	1.6	0.8	0.4	136	+4	+5	+6	+7	+11	224
10	2.64	1.8	0.9	0.5	140	+4	+5	+7	+8	+12	220
20	5.29	3.6	1.8	1.1	144	+4	+5	+7	+8	+13	216
30	7.93	5.4	2.7	1.6	148	+4	+5	+7	+9	+13	212
40	10.58	7.3	3.7	2.2	152	+5	+6	+8	+9	+14	208
50	13.22	9.1	4.6	2.7	156	+5	+6	+8	+10	+14	204
					160	+5	+6	+8	+10	+15	200
10s	0.04	0.0	0.0	0.0	164	+5	+6	+8	+10	+15	196
20	0.09	0.1	0.0	0.0	168	+5	+6	+8	+10	+15	192
30	0.13	0.1	0.0	0.0	172	+5	+7	+9	+11	+16	188
40	0.17	0.1	0.1	0.0	176	+5	+7	+9	+11	+16	184
50	0.22	0.2	0.1	0.0	180	+5	+7	+9	+11	+16	180

TITAN.

0h		U	B	P	0h		U	B	P
Jan.	0	276° 43'.3	−20° 4'.0	−0° 46'.8	Okt.	4	298° 6'.7	−24° 33'.0	−3° 13'.6
	2	276 39.9	20 3.6	0 46.4		6	298 2.3	24 32.2	3 13.1
	4	276 36.9	20 3.4	0 46.1		8	297 57.5	24 31.4	3 12.6
	6	276 34.3	20 3.3	0 45.8		10	297 52.2	24 30.5	3 12.0
	8	276 32.2	20 3.3	0 45.6		12	297 46.5	24 29.6	3 11.4
	10	276 30.6	−20 3.5	−0 45.4		14	297 40.4	−24 28.7	−3 10.7
	12	276 29.4	20 3.7	0 45.3		16	297 33.8	24 27.7	3 10.0
	14	276 28.7	20 4.1	0 45.2		18	297 26.9	24 26.7	3 9.3
	16	276 28.5	20 4.6	0 45.2		20	297 19.7	24 25.6	3 8.5
	18	276 28.7	20 5.3	0 45.2		22	297 12.1	24 24.5	3 7.7
	20	276 29.4	−20 6.2	−0 45.3		24	297 4.2	−24 23.3	−3 6.8
	22	276 30.5	20 7.2	0 45.4		26	296 56.0	24 22.1	3 5.9
	24	276 32.1	20 8.3	0 45.6		28	296 47.4	24 20.8	3 4.9
	26	276 34.1	20 9.5	0 45.8		30	296 38.5	24 19.5	3 3.9
	28	276 36.6	20 10.7	0 46.1	Nov.	1	296 29.4	24 18.2	3 2.9
	30	276 39.6	−20 12.1	−0 46.4		3	296 20.0	−24 16.9	−3 1.9
Febr.	1	276 43.0	20 13.6	0 46.8		5	296 10.4	24 15.6	3 0.8
	3	276 46.9	20 15.3	0 47.3		7	296 0.6	24 14.3	2 59.7
	5	276 51.2	20 17.1	0 47.8		9	295 50.6	24 12.9	2 58.6
	7	276 56.0	20 19.0	0 48.4		11	295 40.4	24 11.5	2 57.5
	9	277 1.2	−20 21.0	−0 49.0		13	295 30.1	−24 10.1	−2 56.4
	11	277 6.8	20 23.2	0 49.7		15	295 19.7	24 8.7	2 55.3
	13	277 12.8	20 25.5	0 50.4		17	295 9.1	24 7.3	2 54.1
	15	277 19.2	20 27.8	0 51.1		19	294 58.5	24 5.9	2 52.9
	17	277 26.0	20 30.2	0 51.9		21	294 47.9	24 4.4	2 51.7
	19	277 33.3	−20 32.8	−0 52.7		23	294 37.2	−24 2.9	−2 50.5
	21	277 41.0	20 35.4	0 53.6		25	294 26.6	24 1.5	2 49.3
	23	277 49.0	20 38.1	0 54.6		27	294 16.0	24 0.1	2 48.1
	25	277 57.4	20 40.9	0 55.6		29	294 5.4	23 58.7	2 47.0
	27	278 6.2	20 43.8	0 56.6	Dez.	1	293 54.9	23 57.3	2 45.8
	29	278 15.4	−20 46.8	−0 57.7		3	293 44.5	−23 56.0	−2 44.7
März	2	278 24.9	20 49.9	0 58.8		5	293 34.2	23 54.7	2 43.5
	4	278 34.8	20 53.0	0 59.9		7	293 24.1	23 53.5	2 42.4
	6	278 45.0	20 56.2	1 1.1		9	293 14.2	23 52.3	2 41.3
	8	278 55.5	20 59.4	1 2.3		11	293 4.4	23 51.1	2 40.2
	10	279 6.4	−21 2.7	−1 3.6		13	292 54.8	−23 49.9	−2 39.1
	12	279 17.6	21 6.0	1 4.9		15	292 45.5	23 48.8	2 38.0
	14	279 29.0	21 9.4	1 6.3		17	292 36.5	23 47.7	2 37.0
	16	279 40.7	21 12.9	1 7.7		19	292 27.7	23 46.7	2 36.0
	18	279 52.8	21 16.4	1 9.1		21	292 19.2	23 45.7	2 35.1
	20	280 5.2	−21 19.9	−1 10.5		23	292 11.0	−23 44.8	−2 34.2
	22	280 17.8	21 23.5	1 12.0		25	292 3.2	23 44.0	2 33.3
	24	280 30.7	21 27.1	1 13.5		27	291 55.7	23 43.2	2 32.5
	26	280 43.9	−21 30.7	−1 15.0		29	291 48.6	23 42.5	2 31.7
						31	291 41.9	−23 41.8	−2 30.9

TITAN.

0^h	$\alpha_{tr} - \alpha_{pl}$	Diff.	$\delta_{tr} - \delta_{pl}$	Diff.
Jan. 0	$+4^s.76$	$-5^s.30$	$+64''.1$	$+2''.5$
1	−0.54	−5.18	+66.6	−8.1
2	−5.72	−4.23	+58.5	−17.7
3	−9.95	−2.57	+40.8	−24.5
4	−12.52	−0.45	+16.3	−26.9
5	−12.97	+1.69	−10.6	−25.1
6	−11.28	+3.50	−35.7	−19.3
7	−7.78	+4.70	−55.0	−10.7
8	−3.08	+5.16	−65.7	−0.7
9	+2.08	+4.84	−66.4	+9.1
10	+6.92	+3.84	−57.3	+17.3
11	+10.76	+2.30	−40.0	+22.8
12	+13.06	+0.46	−17.2	+25.2
13	+13.52	−1.47	+8.0	+24.0
14	+12.05	−3.22	+32.0	+19.2
15	+8.83	−4.52	+51.2	+11.6
16	+4.31	−5.16	+62.8	+1.9
17	−0.85	−5.01	+64.7	−8.5
18	−5.86	−4.03	+56.2	−17.7
19	−9.89	−2.36	+38.5	−24.0
20	−12.25	−0.32	+14.5	−26.3
21	−12.57	+1.75	−11.8	−24.2
22	−10.82	+3.49	−36.0	−18.5
23	−7.33	+4.61	−54.5	−9.9
24	−2.72	+5.01	−64.4	−0.1
25	+2.29	+4.66	−64.5	+9.3
26	+6.95	+3.66	−55.2	+17.1
27	+10.61	+2.15	−38.1	+22.5
28	+12.76	+0.35	−15.6	+24.6
29	+13.11	−1.51	+9.0	+23.3
30	+11.60	−3.19	+32.3	+18.5
31	+8.41	−4.43	+50.8	+10.9
Febr. 1	+3.98	−5.03	+61.7	+1.4
2	−1.05	−4.83	+63.1	−8.7
3	−5.88	−3.86	+54.4	−17.6
4	−9.74	−2.22	+36.8	−23.7
5	−11.96	−0.23	+13.1	−25.7
6	−12.19	+1.77	−12.6	−23.6
7	−10.42	+3.43	−36.2	−17.8
8	−6.99	+4.51	−54.0	−9.4
9	−2.48	+4.86	−63.4	+0.2
10	+2.38	+4.51	−63.2	+9.4
11	+6.89	+3.51	−53.8	+17.1
12	+10.40	+2.04	−36.7	+22.2
13	+12.44		−14.5	
Febr. 13	$+12^s.44$	$+0^s.29$	$-14''.5$	$+24''.2$
14	+12.73	−1.51	+9.7	+22.8
15	+11.22	−3.14	+32.5	+18.0
16	+8.08	−4.33	+50.5	+10.5
17	+3.75	−4.89	+61.0	+1.0
18	−1.14	−4.69	+62.0	−8.9
19	−5.83	−3.72	+53.1	−17.5
20	−9.55	−2.12	+35.6	−23.4
21	−11.67	−0.19	+12.2	−25.4
22	−11.86	+1.76	−13.2	−23.2
23	−10.10	+3.36	−36.4	−17.3
24	−6.74	+4.39	−53.7	−9.0
25	−2.35	+4.73	−62.7	+0.4
26	+2.38	+4.38	−62.3	+9.4
27	+6.76	+3.41	−52.9	+17.0
28	+10.17	+1.97	−35.9	+22.0
29	+12.14	+0.27	−13.9	+24.0
März 1	+12.41	−1.49	+10.1	+22.5
2	+10.92	−3.07	+32.6	+17.7
3	+7.85	−4.22	+50.3	+10.2
4	+3.63	−4.77	+60.5	+0.9
5	−1.14	−4.57	+61.4	−8.9
6	−5.71	−3.63	+52.5	−17.5
7	−9.34	−2.07	+35.0	−23.3
8	−11.41	−0.17	+11.7	−25.2
9	−11.58	+1.71	−13.5	−22.9
10	−9.87	+3.28	−36.4	−17.2
11	−6.59	+4.28	−53.6	−8.9
12	−2.31	+4.62	−62.5	+0.5
13	+2.31	+4.28	−62.0	+9.5
14	+6.59	+3.34	−52.5	+16.9
15	+9.93	+1.94	−35.6	+21.9
16	+11.87	+0.28	−13.7	+23.9
17	+12.15	−1.44	+10.2	+22.4
18	+10.71	−2.99	+32.6	+17.7
19	+7.72	−4.13	+50.3	+10.2
20	+3.59	−4.67	+60.5	+0.8
21	−1.08	−4.49	+61.3	−9.0
22	−5.57	−3.56	+52.3	−17.5
23	−9.13	−2.05	+34.8	−23.3
24	−11.18	−0.20	+11.5	−25.1
25	−11.38	+1.65	−13.6	−23.0
26	−9.73		−36.6	

TITAN.

0ʰ	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		0ʰ	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Okt. 4	−11.80 s	+3.66 s	−51.2″	−22.1″	Nov. 17	− 7.94 s	−4.09 s	+63.8″	−27.2″
5	− 8.14	+4.90	−73.3	−10.8	18	−12.03	−2.06	+36.6	−33.4
6	− 3.24	+5.40	−84.1	+ 1.5	19	−14.09	+0.28	+ 3.2	−33.8
7	+ 2.16	+5.12	−82.6	+13.4	20	−13.81	+2.52	−30.6	−28.9
8	+ 7.28	+4.09	−69.2	+23.3	21	−11.29	+4.30	−59.5	−19.6
9	+11.37	+2.49	−45.9	+29.9	22	− 6.99	+5.36	−79.1	− 7.5
10	+13.86	+0.52	−16.0	+32.3	23	− 1.63	+5.61	−86.6	+ 5.3
11	+14.38	−1.57	+16.3	+29.9	24	+ 3.98	+5.03	−81.3	+17.0
12	+12.81	−3.50	+46.2	+23.1	25	+ 9.01	+3.75	−64.3	+26.1
13	+ 9.31	−4.95	+69.3	+12.4	26	+12.76	+1.94	−38.2	+31.5
14	+ 4.36	−5.66	+81.7	− 0.7	27	+14.70	−0.17	− 6.7	+32.4
15	− 1.30	−5.46	+81.0	−14.0	28	+14.53	−2.31	+25.7	+28.6
16	− 6.76	−4.33	+67.0	−25.1	29	+12.22	−4.15	+54.3	+20.4
17	−11.09	−2.48	+41.9	−32.3	30	+ 8.07	−5.40	+74.7	+ 8.7
18	−13.57	−0.23	+ 9.6	−33.9	Dez. 1	+ 2.67	−5.82	+83.4	− 4.7
19	−13.80	+2.01	−24.3	−30.0	2	− 3.15	−5.30	+78.7	−17.7
20	−11.79	+3.88	−54.3	−21.5	3	− 8.45	−3.87	+61.0	−27.9
21	− 7.91	+5.10	−75.8	−10.0	4	−12.32	−1.79	+33.1	−33.3
22	− 2.81	+5.52	−85.8	+ 2.7	5	−14.11	+0.55	− 0.2	−33.3
23	+ 2.71	+5.15	−83.1	+14.6	6	−13.56	+2.74	−33.5	−27.8
24	+ 7.86	+4.05	−68.5	+24.4	7	−10.82	+4.44	−61.3	−18.1
25	+11.91	+2.36	−44.1	+30.8	8	− 6.38	+5.40	−79.4	− 6.1
26	+14.27	+0.32	−13.3	+32.7	9	− 0.98	+5.54	−85.5	+ 6.5
27	+14.59	−1.81	+19.4	+29.9	10	+ 4.56	+4.88	−79.0	+17.9
28	+12.78	−3.74	+49.3	+22.5	11	+ 9.44	+3.54	−61.1	+26.5
29	+ 9.04	−5.15	+71.8	+11.3	12	+12.98	+1.69	−34.6	+31.4
30	+ 3.89	−5.77	+83.1	− 1.9	13	+14.67	−0.42	− 3.2	+31.7
31	− 1.88	−5.48	+81.2	−15.3	14	+14.25	−2.52	+28.5	+27.5
Nov. 1	− 7.36	−4.24	+65.9	−26.3	15	+11.73	−4.28	+56.0	+19.0
2	−11.60	−2.30	+39.6	−33.0	16	+ 7.45	−5.43	+75.0	+ 7.2
3	−13.90	+0.01	+ 6.6	−34.2	17	+ 2.02	−5.74	+82.2	− 6.0
4	−13.89	+2.27	−27.6	−29.6	18	− 3.72	−5.11	+76.2	−18.5
5	−11.62	+4.10	−57.2	−20.6	19	− 8.83	−3.62	+57.7	−28.1
6	− 7.52	+5.26	−77.8	− 8.9	20	−12.45	−1.52	+29.6	−33.0
7	− 2.26	+5.60	−86.7	+ 3.9	21	−13.97	+0.79	− 3.4	−32.4
8	+ 3.34	+5.12	−82.8	+15.9	22	−13.18	+2.91	−35.8	−26.5
9	+ 8.46	+3.93	−66.9	+25.5	23	−10.27	+4.52	−62.3	−16.6
10	+12.39	+2.17	−41.4	+31.3	24	− 5.75	+5.38	−78.9	− 4.7
11	+14.56	+0.08	−10.1	+32.7	25	− 0.37	+5.42	−83.6	+ 7.5
12	+14.64	−2.06	+22.6	+29.4	26	+ 5.05	+4.68	−76.1	+18.4
13	+12.58	−3.96	+52.0	+21.7	27	+ 9.73	+3.30	−57.7	+26.6
14	+ 8.62	−5.31	+73.7	+10.1	28	+13.03	+1.45	−31.1	+30.9
15	+ 3.31	−5.83	+83.8	− 3.4	29	+14.48	−0.64	− 0.2	+30.8
16	− 2.52	−5.42	+80.4	−16.6	30	+13.84	−2.66	+30.6	+26.3
17	− 7.94		+63.8		31	+11.18		+56.9	

HYPERION.

0h	U	B	P	0h	U	B	P
Jan. 0	272° 18.0'	−19° 43.8'	−0° 15.2'	Okt. 4	293° 29.2'	−24° 26.4'	−2° 34.7'
2	272 14.6	19 43.4	0 14.8	6	293 24.8	24 25.5	2 34.3
4	272 11.6	19 43.2	0 14.5	8	293 19.9	24 24.6	2 33.8
6	272 9.0	19 43.1	0 14.2	10	293 14.6	24 23.6	2 33.2
8	272 6.8	19 43.1	0 14.0	12	293 8.9	24 22.6	2 32.6
10	272 5.1	−19 43.3	−0 13.8	14	293 2.8	−24 21.6	−2 31.9
12	272 3.9	19 43.6	0 13.7	16	292 56.3	24 20.5	2 31.2
14	272 3.1	19 44.0	0 13.6	18	292 49.4	24 19.4	2 30.5
16	272 2.8	19 44.5	0 13.6	20	292 42.1	24 18.2	2 29.7
18	272 3.0	19 45.2	0 13.6	22	292 34.5	24 17.0	2 28.9
20	272 3.6	−19 46.0	−0 13.6	24	292 26.5	−24 15.7	−2 28.0
22	272 4.7	19 46.9	0 13.7	26	292 18.2	24 14.4	2 27.1
24	272 6.2	19 47.9	0 13.8	28	292 9.6	24 13.1	2 26.2
26	272 8.2	19 49.1	0 14.0	30	292 0.7	24 11.8	2 25.3
28	272 10.6	19 50.4	0 14.3	Nov. 1	291 51.6	24 10.4	2 24.3
30	272 13.5	−19 51.9	−0 14.6	3	291 42.2	−24 9.0	−2 23.3
Febr. 1	272 16.8	19 53.5	0 15.0	5	291 32.6	24 7.6	2 22.3
3	272 20.6	19 55.2	0 15.4	7	291 22.8	24 6.2	2 21.3
5	272 24.8	19 57.1	0 15.9	9	291 12.7	24 4.7	2 20.2
7	272 29.5	19 59.1	0 16.4	11	291 2.5	24 3.2	2 19.1
9	272 34.6	−20 1.2	−0 17.0	13	290 52.2	−24 1.7	−2 18.0
11	272 40.2	20 3.4	0 17.6	15	290 41.8	24 0.2	2 16.9
13	272 46.2	20 5.7	0 18.3	17	290 31.2	23 58.7	2 15.7
15	272 52.5	20 8.1	0 19.0	19	290 20.6	23 57.2	2 14.6
17	272 59.3	20 10.6	0 19.7	21	290 9.9	23 55.7	2 13.4
19	273 6.5	−20 13.2	−0 20.5	23	289 59.2	−23 54.2	−2 12.2
21	273 14.0	20 15.9	0 21.3	25	289 48.5	23 52.8	2 11.1
23	273 21.9	20 18.7	0 22.2	27	289 37.9	23 51.3	2 9.9
25	273 30.2	20 21.6	0 23.1	29	289 27.3	23 49.9	2 8.8
27	273 38.9	20 24.5	0 24.1	Dez. 1	289 16.8	23 48.4	2 7.6
29	273 48.0	−20 27.5	−0 25.1	3	289 6.4	−23 47.0	−2 6.5
März 2	273 57.4	20 30.7	0 26.1	5	288 56.1	23 45.5	2 5.4
4	274 7.2	20 33.9	0 27.2	7	288 46.0	23 44.1	2 4.3
6	274 17.3	20 37.2	0 28.3	9	288 36.0	23 42.7	2 3.2
8	274 27.7	20 40.5	0 29.5	11	288 26.2	23 41.4	2 2.2
10	274 38.5	−20 43.9	−0 30.7	13	288 16.6	−23 40.2	−2 1.1
12	274 49.6	20 47.3	0 31.9	15	288 7.3	23 39.0	2 0.1
14	275 0.9	20 50.8	0 33.2	17	287 58.2	23 37.8	1 59.1
16	275 12.5	20 54.4	0 34.5	19	287 49.4	23 36.7	1 58.2
18	275 24.5	20 58.0	0 35.8	21	287 40.9	23 35.6	1 57.3
20	275 36.7	−21 1.7	−0 37.1	23	287 32.7	−23 34.6	−1 56.4
22	275 49.2	21 5.4	0 38.5	25	287 24.8	23 33.7	1 55.5
24	276 2.0	21 9.2	0 39.9	27	287 17.3	23 32.8	1 54.7
26	276 15.0	−21 13.0	−0 41.4	29	287 10.2	23 32.0	1 53.9
				31	287 3.4	−23 31.4	−1 53.2

HYPERION.

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan. 0	+14.22^s	−3.15^s	+30.8″	+20.0″
1	+11.07	−4.38	+50.8	+14.2
2	+ 6.69	−5.14	+65.0	+ 6.5
3	+ 1.55	−5.32	+71.5	− 2.2
4	− 3.77	−4.85	+69.3	−10.5
5	− 8.62	−3.86	+58.8	−17.1
6	−12.48	−2.52	+41.7	−21.4
7	−15.00	−1.06	+20.3	−23.4
8	−16.06	+0.37	− 3.1	−23.1
9	−15.69	+1.63	−26.2	−20.9
10	−14.06	+2.68	−47.1	−17.3
11	−11.38	+3.46	−64.4	−12.7
12	− 7.92	+3.98	−77.1	− 7.5
13	− 3.94	+4.23	−84.6	− 2.0
14	+ 0.29	+4.19	−86.6	+ 3.7
15	+ 4.48	+3.88	−82.9	+ 9.1
16	+ 8.36	+3.30	−73.8	+14.1
17	+11.66	+2.44	−59.7	+18.4
18	+14.10	+1.34	−41.3	+21.5
19	+15.44	+0.04	−19.8	+23.0
20	+15.48	−1.38	+ 3.2	+22.7
21	+14.10	−2.80	+25.9	+20.0
22	+11.30	−4.03	+45.9	+14.9
23	+ 7.27	−4.86	+60.8	+ 7.8
24	+ 2.41	−5.13	+68.6	− 0.5
25	− 2.72	−4.79	+68.1	− 8.6
26	− 7.51	−3.92	+59.5	−15.4
27	−11.43	−2.68	+44.1	−20.1
28	−14.11	−1.30	+24.0	−22.4
29	−15.41	+0.08	+ 1.6	−22.5
30	−15.33	+1.32	−20.9	−20.7
31	−14.01	+2.37	−41.6	−17.5
Febr. 1	−11.64	+3.18	−59.1	−13.4
2	− 8.46	+3.73	−72.5	− 8.5
3	− 4.73	+4.02	−81.0	− 3.2
4	− 0.71	+4.06	−84.2	+ 2.3
5	+ 3.35	+3.82	−81.9	+ 7.6
6	+ 7.17	+3.32	−74.3	+12.6
7	+10.49	+2.57	−61.7	+16.9
8	+13.06	+1.57	−44.8	+20.3
9	+14.63	+0.36	−24.5	+22.3
10	+14.99	−1.00	− 2.2	+22.5
11	+13.99	−2.38	+20.3	+20.4
12	+11.61	−3.62	+40.7	+15.9
13	+ 7.99		+56.6	

0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Febr. 13	+ 7.99^s	−4.53^s	+56.6″	+ 9.4″
14	+ 3.46	−4.92	+66.0	+ 1.5
15	− 1.46	−4.74	+67.5	− 6.6
16	− 6.20	−4.01	+60.9	−13.6
17	−10.21	−2.90	+47.3	−18.7
18	−13.11	−1.60	+28.6	−21.4
19	−14.71	−0.28	+ 7.2	−22.1
20	−14.99	+0.95	−14.9	−20.9
21	−14.04	+2.01	−35.8	−18.1
22	−12.03	+2.84	−53.9	−14.3
23	− 9.19	+3.45	−68.2	− 9.7
24	− 5.74	+3.82	−77.9	− 4.6
25	− 1.92	+3.92	−82.5	+ 0.7
26	+ 2.00	+3.77	−81.8	+ 5.9
27	+ 5.77	+3.39	−75.9	+11.0
28	+ 9.16	+2.74	−64.9	+15.6
29	+11.90	+1.84	−49.3	+19.2
März 1	+13.74	+0.73	−30.1	+21.7
2	+14.47	−0.56	− 8.4	+22.3
3	+13.91	−1.90	+13.9	+20.9
4	+12.01	−3.17	+34.8	+17.3
5	+ 8.84	−4.15	+52.1	+11.3
6	+ 4.69	−4.70	+63.4	+ 3.8
7	− 0.01	−4.69	+67.2	− 4.3
8	− 4.70	−4.14	+62.9	−11.5
9	− 8.84	−3.17	+51.4	−17.1
10	−12.01	−1.96	+34.3	−20.6
11	−13.97	−0.69	+13.7	−21.8
12	−14.66	+0.52	− 8.1	−21.2
13	−14.14	+1.60	−29.3	−18.9
14	−12.54	+2.48	−48.2	−15.5
15	−10.06	+3.15	−63.7	−11.2
16	− 6.91	+3.58	−74.9	− 6.3
17	− 3.33	+3.79	−81.2	− 1.2
18	+ 0.46	+3.75	−82.4	+ 4.1
19	+ 4.21	+3.46	−78.3	+ 9.3
20	+ 7.67	+2.93	−69.0	+14.0
21	+10.60	+2.16	−55.0	+18.1
22	+12.76	+1.14	−36.9	+21.0
23	+13.90	−0.07	−15.9	+22.4
24	+13.83	−1.38	+ 6.5	+21.7
25	+12.45	−2.66	+28.2	+19.0
26	+ 9.79		+47.2	

HYPERION.

0^h	$\alpha_{tr}-\alpha_{pl}$ (s)		$\delta_{tr}-\delta_{pl}$ (″)	
Okt. 4	+14.12	−3.25	+ 44.5	+24.6
5	+10.87	−4.55	+ 69.1	+16.4
6	+ 6.32	−5.33	+ 85.5	+ 6.4
7	+ 0.99	−5.45	+ 91.9	− 4.3
8	− 4.46	−5.01	+ 87.6	−13.6
9	− 9.47	−4.09	+ 74.0	−21.0
10	−13.56	−2.88	+ 53.0	−25.8
11	−16.44	−1.54	+ 27.2	−28.1
12	−17.98	−0.19	− 0.9	−28.2
13	−18.17	+1.09	− 29.1	−26.1
14	−17.08	+2.25	− 55.2	−22.5
15	−14.83	+3.21	− 77.7	−17.5
16	−11.62	+3.96	− 95.2	−11.4
17	− 7.66	+4.47	−106.6	− 4.5
18	− 3.19	+4.69	−111.1	+ 2.8
19	+ 1.50	+4.59	−108.3	+10.4
20	+ 6.09	+4.14	− 97.9	+17.6
21	+10.23	+3.33	− 80.3	+24.1
22	+13.56	+2.15	− 56.2	+29.1
23	+15.71	+0.62	− 27.1	+31.7
24	+16.33	−1.10	+ 4.6	+31.3
25	+15.23	−2.83	+ 35.9	+27.2
26	+12.40	−4.31	+ 63.1	+19.8
27	+ 8.09	−5.29	+ 82.9	+ 9.8
28	+ 2.80	−5.63	+ 92.7	− 0.9
29	− 2.83	−5.34	+ 91.8	−11.0
30	− 8.17	−4.51	+ 80.8	−19.3
31	−12.68	−3.34	+ 61.5	−25.0
Nov. 1	−16.02	−2.01	+ 36.5	−28.2
2	−18.03	−0.60	+ 8.3	−28.8
3	−18.63	+0.75	− 20.5	−27.3
4	−17.88	+1.97	− 47.8	−24.1
5	−15.91	+3.02	− 71.9	−19.4
6	−12.89	+3.86	− 91.3	−13.5
7	− 9.03	+4.45	−104.8	− 6.7
8	− 4.58	+4.75	−111.5	+ 0.6
9	+ 0.17	+4.74	−110.9	+ 8.2
10	+ 4.91	+4.38	−102.7	+15.8
11	+ 9.29	+3.65	− 86.9	+22.6
12	+12.94	+2.54	− 64.3	+28.0
13	+15.48	+1.08	− 36.3	+31.5
14	+16.56	−0.62	− 4.8	+31.9
15	+15.94	−2.41	+ 27.1	+28.8
16	+13.53	−3.99	+ 55.9	+22.3
17	+ 9.54		+ 78.2	

0^h	$\alpha_{tr}-\alpha_{pl}$ (s)		$\delta_{tr}-\delta_{pl}$ (″)	
Nov. 17	+ 9.54	−5.13	+ 78.2	+12.9
18	+ 4.41	−5.67	+ 91.1	+ 2.2
19	− 1.26	−5.53	+ 93.3	− 8.3
20	− 6.79	−4.82	+ 85.0	−17.2
21	−11.61	−3.72	+ 67.8	−23.6
22	−15.33	−2.38	+ 44.2	−27.5
23	−17.71	−0.97	+ 16.7	−28.8
24	−18.68	+0.42	− 12.1	−27.9
25	−18.26	+1.69	− 40.0	−25.1
26	−16.57	+2.79	− 65.1	−20.7
27	−13.78	+3.69	− 85.8	−15.2
28	−10.09	+4.34	−101.0	− 8.5
29	− 5.75	+4.72	−109.5	− 1.3
30	− 1.03	+4.78	−110.8	+ 6.2
Dez. 1	+ 3.75	+4.50	−104.6	+13.6
2	+ 8.25	+3.86	− 91.0	+20.6
3	+12.11	+2.84	− 70.4	+26.5
4	+14.95	+1.46	− 43.9	+30.4
5	+16.41	−0.19	− 13.5	+31.7
6	+16.22	−1.95	+ 18.2	+29.6
7	+14.27	−3.59	+ 47.8	+24.0
8	+10.68	−4.87	+ 71.8	+15.4
9	+ 5.81	−5.55	+ 87.2	+ 5.1
10	+ 0.26	−5.58	+ 92.3	− 5.5
11	− 5.32	−5.01	+ 86.8	−14.7
12	−10.33	−3.99	+ 72.1	−21.7
13	−14.32	−2.70	+ 50.4	−26.2
14	−17.02	−1.30	+ 24.2	−28.2
15	−18.32	+0.08	− 4.0	−27.8
16	−18.24	+1.38	− 31.8	−25.4
17	−16.86	+2.52	− 57.2	−21.6
18	−14.34	+3.46	− 78.8	−16.4
19	−10.88	+4.15	− 95.2	−10.1
20	− 6.73	+4.58	−105.3	− 3.2
21	− 2.15	+4.71	−108.5	+ 4.1
22	+ 2.56	+4.52	−104.4	+11.5
23	+ 7.08	+3.97	− 92.9	+18.5
24	+11.05	+3.06	− 74.4	+24.4
25	+14.11	+1.79	− 50.0	+28.8
26	+15.90	+0.23	− 21.2	+30.7
27	+16.13	−1.49	+ 9.5	+29.6
28	+14.64	−3.14	+ 39.1	+25.1
29	+11.50	−4.49	+ 64.2	+17.5
30	+ 7.01	−5.31	+ 81.7	+ 7.7
31	+ 1.70		+ 89.4	

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0^h		U	B	P	0^h		U	B	P
Jan.	0	353° 55.5′	−15° 36.2′	−14° 40.6′	Okt.	4	14° 59.9′	−15° 35.2′	−14° 39.3′
	2	353 52.2	15 36.6	14 40.5		6	14 55.7	15 35.2	14 39.5
	4	353 49.3	15 37.0	14 40.4		8	14 51.0	15 35.2	14 39.7
	6	353 46.9	15 37.5	14 40.3		10	14 45.9	15 35.3	14 39.9
	8	353 45.0	15 38.0	14 40.3		12	14 40.5	15 35.4	14 40.2
	10	353 43.5	−15 38.5	−14 40.3		14	14 34.7	−15 35.5	−14 40.5
	12	353 42.5	15 39.1	14 40.3		16	14 28.5	15 35.7	14 40.8
	14	353 41.9	15 39.7	14 40.3		18	14 21.9	15 35.9	14 41.1
	16	353 41.8	15 40.3	14 40.3		20	14 15.0	15 36.1	14 41.5
	18	353 42.2	15 40.9	14 40.4		22	14 7.7	15 36.4	14 41.8
	20	353 43.0	−15 41.5	−14 40.5		24	14 0.1	−15 36.7	−14 42.2
	22	353 44.3	15 42.2	14 40.6		26	13 52.2	15 37.0	14 42.6
	24	353 46.1	15 42.9	14 40.7		28	13 44.0	15 37.4	14 43.0
	26	353 48.3	15 43.6	14 40.9		30	13 35.5	15 37.8	14 43.4
	28	353 51.0	15 44.3	14 41.0	Nov.	1	13 26.8	15 38.2	14 43.8
	30	353 54.2	−15 45.1	−14 41.2		3	13 17.8	−15 38.6	−14 44.2
Febr.	1	353 57.8	15 45.8	14 41.4		5	13 8.6	15 39.1	14 44.6
	3	354 1.9	15 46.6	14 41.6		7	12 59.2	15 39.6	14 45.0
	5	354 6.4	15 47.3	14 41.9		9	12 49.6	15 40.1	14 45.4
	7	354 11.4	15 48.1	14 42.2		11	12 39.9	15 40.7	14 45.8
	9	354 16.8	−15 48.8	−14 42.5		13	12 30.0	−15 41.3	−14 46.3
	11	354 22.6	15 49.6	14 42.8		15	12 20.0	15 41.9	14 46.8
	13	354 28.9	15 50.4	14 43.1		17	12 10.0	15 42.5	14 47.2
	15	354 35.6	15 51.2	14 43.4		19	11 59.9	15 43.1	14 47.6
	17	354 42.7	15 52.0	14 43.8		21	11 49.7	15 43.7	14 48.0
	19	354 50.2	−15 52.9	−14 44.2		23	11 39.5	−15 44.3	−14 48.4
	21	354 58.1	15 53.7	14 44.6		25	11 29.3	15 45.0	14 48.8
	23	355 6.3	15 54.6	14 45.0		27	11 19.1	15 45.6	14 49.2
	25	355 14.9	15 55.5	14 45.4		29	11 9.0	15 46.3	14 49.6
	27	355 24.0	15 56.3	14 45.8	Dez.	1	10 59.0	15 46.9	14 50.0
	29	355 33.4	−15 57.2	−14 46.2		3	10 49.0	−15 47.6	−14 50.3
März	2	355 43.1	15 58.0	14 46.6		5	10 39.1	15 48.3	14 50.7
	4	355 53.2	15 58.8	14 47.0		7	10 29.4	15 49.0	14 51.0
	6	356 3.6	15 59.6	14 47.4		9	10 19.9	15 49.8	14 51.4
	8	356 14.3	16 0.4	14 47.8		11	10 10.6	15 50.5	14 51.7
	10	356 25.4	−16 1.2	−14 48.3		13	10 1.5	−15 51.2	−14 52.0
	12	356 36.8	16 2.0	14 48.7		15	9 52.6	15 51.9	14 52.3
	14	356 48.5	16 2.8	14 49.1		17	9 44.0	15 52.6	14 52.6
	16	357 0.4	16 3.6	14 49.5		19	9 35.6	15 53.3	14 52.8
	18	357 12.7	16 4.3	14 50.0		21	9 27.5	15 54.0	14 53.1
	20	357 25.2	−16 5.0	−14 50.5		23	9 19.7	−15 54.6	−14 53.3
	22	357 38.0	16 5.7	14 50.9		25	9 12.2	15 55.3	14 53.6
	24	357 51.0	16 6.4	14 51.3		27	9 5.0	15 56.0	14 53.8
	26	358 4.3	−16 7.1	−14 51.7		29	8 58.2	15 56.7	14 54.0
						31	8 51.8	−15 57.4	−14 54.2

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0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
Jan. 0	+35.61 s	−1.37 s	+194.4″	+ 6.2″	Febr. 13	−25.39 s	+2.05 s	−187.1″	− 1.1″
1	+34.24	−1.57	+200.6	+ 4.9	14	−23.34	+2.20	−188.2	+ 0.1
2	+32.67	−1.75	+205.5	+ 3.7	15	−21.14	+2.33	−188.1	+ 1.3
3	+30.92	−1.93	+209.2	+ 2.5	16	−18.81	+2.45	−186.8	+ 2.6
4	+28.99	−2.10	+211.7	+ 1.3	17	−16.36	+2.54	−184.2	+ 3.8
5	+26.89	−2.24	+213.0	0.0	18	−13.82	+2.63	−180.4	+ 4.9
6	+24.65	−2.38	+213.0	− 1.1	19	−11.19	+2.69	−175.5	+ 6.1
7	+22.27	−2.50	+211.9	− 2.4	20	− 8.50	+2.73	−169.4	+ 7.1
8	+19.77	−2.61	+209.5	− 3.6	21	− 5.77	+2.76	−162.3	+ 8.2
9	+17.16	−2.69	+205.9	− 4.9	22	− 3.01	+2.77	−154.1	+ 9.2
10	+14.47	−2.77	+201.0	− 6.0	23	− 0.24	+2.76	−144.9	+10.1
11	+11.70	−2.82	+195.0	− 7.1	24	+ 2.52	+2.74	−134.8	+10.9
12	+ 8.88	−2.87	+187.9	− 8.1	25	+ 5.26	+2.69	−123.9	+11.7
13	+ 6.01	−2.89	+179.8	− 9.2	26	+ 7.95	+2.64	−112.2	+12.3
14	+ 3.12	−2.90	+170.6	−10.2	27	+10.59	+2.56	− 99.9	+12.9
15	+ 0.22	−2.89	+160.4	−11.0	28	+13.15	+2.47	− 87.0	+13.5
16	− 2.67	−2.86	+149.4	−11.9	29	+15.62	+2.36	− 73.5	+13.9
17	− 5.53	−2.82	+137.5	−12.6	März 1	+17.98	+2.25	− 59.6	+14.2
18	− 8.35	−2.76	+124.9	−13.3	2	+20.23	+2.11	− 45.4	+14.4
19	−11.11	−2.68	+111.6	−14.0	3	+22.34	+1.97	− 31.0	+14.6
20	−13.79	−2.58	+ 97.6	−14.5	4	+24.31	+1.82	− 16.4	+14.6
21	−16.37	−2.48	+ 83.1	−14.9	5	+26.13	+1.66	− 1.8	+14.6
22	−18.85	−2.35	+ 68.2	−15.3	6	+27.79	+1.49	+ 12.8	+14.5
23	−21.20	−2.21	+ 52.9	−15.5	7	+29.28	+1.31	+ 27.3	+14.3
24	−23.41	−2.05	+ 37.4	−15.7	8	+30.59	+1.12	+ 41.6	+14.1
25	−25.46	−1.89	+ 21.7	15.8	9	+31.71	+0.94	+ 55.7	+13.7
26	−27.35	−1.71	+ 5.9	−15.8	10	+32.65	+0.75	+ 69.4	+13.3
27	−29.06	−1.52	− 9.9	−15.6	11	+33.40	+0.55	+ 82.7	+12.7
28	−30.58	−1.32	− 25.5	−15.5	12	+33.95	+0.36	+ 95.4	+12.2
29	−31.90	−1.12	− 41.0	−15.1	13	+34.31	+0.16	+107.6	+11.5
30	−33.02	−0.90	− 56.1	−14.7	14	+34.47	−0.03	+119.1	+10.8
31	−33.92	−0.67	− 70.8	−14.2	15	+34.44	−0.23	+129.9	+10.1
Febr. 1	−34.59	−0.45	− 85.0	−13.5	16	+34.21	−0.42	+140.0	+ 9.3
2	−35.04	−0.23	− 98.5	−12.9	17	+33.79	−0.60	+149.3	+ 8.4
3	−35.27	+0.01	−111.4	−12.1	18	+33.19	−0.79	+157.7	+ 7.6
4	−35.26	+0.23	−123.5	−11.3	19	+32.40	−0.97	+165.3	+ 6.6
5	−35.03	+0.46	−134.8	−10.4	20	+31.43	−1.14	+171.9	+ 5.7
6	−34.57	+0.69	−145.2	− 9.4	21	+30.29	−1.30	+177.6	+ 4.7
7	−33.88	+0.91	−154.6	− 8.3	22	+28.99	−1.46	+182.3	+ 3.7
8	−32.97	+1.12	−162.9	− 7.2	23	+27.53	−1.60	+186.0	+ 2.6
9	−31.85	+1.33	−170.1	− 6.0	24	+25.93	−1.74	+188.6	+ 1.6
10	−30.52	+1.53	−176.1	− 4.9	25	+24.19	−1.88	+190.2	+ 0.6
11	−28.99	+1.71	−181.0	− 3.7	26	+22.31		+190.8	
12	−27.28	+1.89	−184.7	− 2.4					
13	−25.39		−187.1						

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0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$		0^h	$\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
	s	s	"	"		s	s	"	"
Okt. 4	−38.60	+0.27	−139.5	−12.2	Nov. 17	+37.90	−1.56	+210.0	+ 6.3
5	−38.33	+0.54	−151.7	−11.2	18	+36.34	−1.78	+216.3	+ 5.1
6	−37.79	+0.80	−162.9	−10.1	19	+34.56	−1.99	+221.4	+ 3.7
7	−36.99	+1.06	−173.0	− 9.0	20	+32.57	−2.18	+225.1	+ 2.4
8	−35.93	+1.32	−182.0	− 7.7	21	+30.39	−2.37	+227.5	+ 1.0
9	−34.61	+1.56	−189.7	− 6.4	22	+28.02	−2.54	+228.5	− 0.4
10	−33.05	+1.80	−196.1	− 5.0	23	+25.48	−2.70	+228.1	− 1.8
11	−31.25	+2.02	−201.1	− 3.7	24	+22.78	−2.83	+226.3	− 3.1
12	−29.23	+2.23	−204.8	− 2.2	25	+19.95	−2.96	+223.2	− 4.5
13	−27.00	+2.42	−207.0	− 0.8	26	+16.99	−3.06	+218.7	− 5.9
14	−24.58	+2.60	−207.8	+ 0.6	27	+13.93	−3.14	+212.8	− 7.2
15	−21.98	+2.76	−207.2	+ 2.1	28	+10.79	−3.21	+205.6	− 8.4
16	−19.22	+2.90	−205.1	+ 3.5	29	+ 7.58	−3.25	+197.2	− 9.7
17	−16.32	+3.02	−201.6	+ 4.9	30	+ 4.33	−3.28	+187.5	−10.8
18	−13.30	+3.12	−196.7	+ 6.3	Dez. 1	+ 1.05	−3.28	+176.7	−11.9
19	−10.18	+3.20	−190.4	+ 7.6	2	− 2.23	−3.26	+164.8	−13.0
20	− 6.98	+3.25	−182.8	+ 8.9	3	− 5.49	−3.22	+151.8	−13.9
21	− 3.73	+3.29	−173.9	+10.1	4	− 8.71	−3.17	+137.9	−14.8
22	− 0.44	+3.30	−163.8	+11.3	5	−11.88	−3.09	+123.1	−15.6
23	+ 2.86	+3.29	−152.5	+12.3	6	−14.97	−2.98	+107.5	−16.2
24	+ 6.15	+3.25	−140.2	+13.2	7	−17.95	−2.86	+ 91.3	−16.8
25	+ 9.40	+3.19	−127.0	+14.1	8	−20.81	−2.72	+ 74.5	−17.3
26	+12.59	+3.12	−112.9	+14.9	9	−23.53	−2.55	+ 57.2	−17.7
27	+15.71	+3.02	− 98.0	+15.6	10	−26.08	−2.38	+ 39.5	−17.9
28	+18.73	+2.91	− 82.4	+16.2	11	−28.46	−2.18	+ 21.6	−18.0
29	+21.64	+2.78	− 66.2	+16.7	12	−30.64	−1.98	+ 3.6	−17.9
30	+24.42	+2.63	− 49.5	+17.0	13	−32.62	−1.75	− 14.3	−17.9
31	+27.05	+2.46	− 32.5	+17.3	14	−34.37	−1.52	− 32.2	−17.6
Nov. 1	+29.51	+2.27	− 15.2	+17.4	15	−35.89	−1.26	− 49.8	−17.2
2	+31.78	+2.08	+ 2.2	+17.4	16	−37.15	−1.01	− 67.0	−16.8
3	+33.86	+1.88	+ 19.6	+17.4	17	−38.16	−0.74	− 83.8	−16.2
4	+35.74	+1.65	+ 37.0	+17.2	18	−38.90	−0.48	−100.0	−15.4
5	+37.39	+1.41	+ 54.2	+16.9	19	−39.38	−0.20	−115.4	−14.6
6	+38.80	+1.17	+ 71.1	+16.5	20	−39.58	+0.08	−130.0	−13.6
7	+39.97	+0.93	+ 87.6	+16.0	21	−39.50	+0.36	−143.6	−12.6
8	+40.90	+0.68	+103.6	+15.3	22	−39.14	+0.62	−156.2	−11.5
9	+41.58	+0.43	+118.9	+14.7	23	−38.52	+0.89	−167.7	−10.3
10	+42.01	+0.17	+133.6	+13.9	24	−37.63	+1.15	−178.0	− 9.1
11	+42.18	−0.08	+147.5	+13.0	25	−36.48	+1.40	−187.1	− 7.7
12	+42.10	−0.34	+160.5	+12.1	26	−35.08	+1.65	−194.8	− 6.3
13	+41.76	−0.60	+172.6	+11.0	27	−33.43	+1.88	−201.1	− 4.9
14	+41.16	−0.84	+183.6	+10.0	28	−31.55	+2.09	−206.0	− 3.4
15	+40.32	−1.09	+193.6	+ 8.8	29	−29.46	+2.30	−209.4	− 2.0
16	+39.23	−1.33	+202.4	+ 7.6	30	−27.16	+2.47	−211.4	− 0.5
17	+37.90		+210.0		31	−24.69		−211.9	

Elongationen.

MIMAS.

		h				h				h				h	
Jan.	0	19.4	W.	Jan.	21	1.7	O.	Febr.	10	8.1	W.	März	1	14.5	O.
	1	6.7	O.		21	13.0	W.		10	19.4	O.		2	1.8	W.
	1	18.0	W.		22	0.3	O.		11	6.7	W.		2	13.1	O.
	2	5.3	O.		22	11.6	W.		11	18.0	O.		3	0.4	W.
	2	16.6	W.		22	22.9	O.		12	5.3	W.		3	11.7	O.
	3	3.9	O.		23	10.2	W.		12	16.6	O.		3	23.0	W.
	3	15.2	W.		23	21.5	O.		13	3.9	W.		4	10.3	O.
	4	2.5	O.		24	8.8	W.		13	15.2	O.		4	21.6	W.
	4	13.9	W.		24	20.1	O.		14	2.6	W.		5	9.0	O.
	5	1.2	O.		25	7.5	W.		14	13.9	O.		5	20.3	W.
	5	12.5	W.		25	18.8	O.		15	1.2	W.		6	7.6	O.
	5	23.8	O.		26	6.1	W.		15	12.5	O.		6	18.9	W.
	6	11.1	W.		26	17.4	O.		15	23.8	W.		7	6.2	O.
	6	22.4	O.		27	4.7	W.		16	11.1	O.		7	17.5	W.
	7	9.7	W.		27	16.0	O.		16	22.4	W.		8	4.8	O.
	7	21.0	O.		28	3.3	W.		17	9.7	O.		8	16.1	W.
	8	8.3	W.		28	14.6	O.		17	21.0	W.		9	3.5	O.
	8	19.6	O.		29	2.0	W.		18	8.4	O.		9	14.8	W.
	9	6.9	W.		29	13.3	O.		18	19.7	W.		10	2.1	O.
	9	18.3	O.		30	0.6	W.		19	7.0	O.		10	13.4	W.
	10	5.6	W.		30	11.9	O.		19	18.3	W.		11	0.7	O.
	10	16.9	O.		30	23.2	W.		20	5.6	O.		11	12.0	W.
	11	4.2	W.		31	10.5	O.		20	16.9	W.		11	23.3	O.
	11	15.5	O.		31	21.8	W.		21	4.2	O.		12	10.6	W.
	12	2.8	W.	Febr.	1	9.1	O.		21	15.5	W.		12	22.0	O.
	12	14.1	O.		1	20.4	W.		22	2.9	O.		13	9.3	W.
	13	1.4	W.		2	7.8	O.		22	14.2	W.		13	20.6	O.
	13	12.7	O.		2	19.1	W.		23	1.5	O.		14	7.9	W.
	14	0.0	W.		3	6.4	O.		23	12.8	W.		14	19.2	O.
	14	11.3	O.		3	17.7	W.		24	0.1	O.		15	6.5	W.
	14	22.6	W.		4	5.0	O.		24	11.4	W.		15	17.9	O.
	15	10.0	O.		4	16.3	W.		24	22.7	O.		16	5.2	W.
	15	21.3	W.		5	3.6	O.		25	10.0	W.		16	16.5	O.
	16	8.6	O.		5	14.9	W.		25	21.3	O.		17	3.8	W.
	16	19.9	W.		6	2.3	O.		26	8.7	W.		17	15.1	O.
	17	7.2	O.		6	13.6	W.		26	20.0	O.		18	2.4	W.
	17	18.5	W.		7	0.9	O.		27	7.3	W.		18	13.7	O.
	18	5.8	O.		7	12.2	W.		27	18.6	O.		19	1.1	W.
	18	17.1	W.		7	23.5	O.		28	5.9	W.		19	12.4	O.
	19	4.4	O.		8	10.8	W.		28	17.2	O.		19	23.7	W.
	19	15.7	W.		8	22.1	O.		29	4.5	W.		20	11.0	O.
	20	3.0	O.		9	9.4	W.		29	15.8	O.		20	22.3	W.
	20	14.4	W.		9	20.7	O.	März	1	3.2	W.		21	9.6	O.

Elongationen.

MIMAS (Fortsetzung).

	h			h			h			h	
März 21	21.0	W.	Okt. 17	14.3	O.	Nov. 6	20.4	W.	Nov. 27	2.6	O.
22	8.3	O.	18	1.6	W.	7	7.7	O.	27	13.9	W.
22	19.6	W.	18	12.9	O.	7	19.0	W.	28	1.2	O.
23	6.9	O.	19	0.2	W.	8	6.3	O.	28	12.5	W.
23	18.2	W.	19	11.5	O.	8	17.6	W.	28	23.8	O.
24	5.5	O.	19	22.8	W.	9	4.9	O.	29	11.1	W.
24	16.9	W.	20	10.1	O.	9	16.3	W.	29	22.4	O.
25	4.2	O.	20	21.4	W.	10	3.6	O.	30	9.7	W.
25	15.5	W.	21	8.7	O.	10	14.9	W.	30	21.0	O.
26	2.8	O.	21	20.0	W.	11	2.2	O.	Dez. 1	8.3	W.
26	14.1	W.	22	7.3	O.	11	13.5	W.	1	19.6	O.
			22	18.6	W.	12	0.8	O.	2	6.9	W.
			23	5.9	O.	12	12.1	W.	2	18.2	O.
			23	17.2	W.	12	23.4	O.	3	5.5	W.
			24	4.5	O.	13	10.7	W.	3	16.9	O.
Okt. 4	9.7	O.	24	15.9	W.	13	22.0	O.	4	4.2	W.
4	21.0	W.	25	3.2	O.	14	9.3	W.	4	15.5	O.
5	8.3	O.	25	14.5	W.	14	20.6	O.	5	2.8	W.
5	19.6	W.	26	1.8	O.	15	7.9	W.	5	14.1	O.
6	6.9	O.	26	13.1	W.	15	19.2	O.	6	1.4	W.
6	18.2	W.	27	0.4	O.	16	6.5	W.	6	12.7	O.
7	5.5	O.	27	11.7	W.	16	17.8	O.	7	0.0	W.
7	16.8	W.	27	23.0	O.	17	5.1	W.	7	11.3	O.
8	4.1	O.	28	10.3	W.	17	16.5	O.	7	22.6	W.
8	15.5	W.	28	21.6	O.	18	3.8	W.	8	9.9	O.
9	2.8	O.	29	8.9	W.	18	15.1	O.	8	21.2	W.
9	14.1	W.	29	20.2	O.	19	2.4	W.	9	8.5	O.
10	1.4	O.	30	7.5	W.	19	13.7	O.	9	19.8	W.
10	12.7	W.	30	18.8	O.	20	1.0	W.	10	7.2	O.
11	0.0	O.	31	6.1	W.	20	12.3	O.	10	18.5	W.
11	11.3	W.	31	17.4	O.	20	23.6	W.	11	5.8	O.
11	22.6	O.	Nov. 1	4.7	W.	21	10.9	O.	11	17.1	W.
12	9.9	W.	1	16.1	O.	21	22.2	W.	12	4.4	O.
12	21.2	O.	2	3.4	W.	22	9.5	O.	12	15.7	W.
13	8.5	W.	2	14.7	O.	22	20.8	W.	13	3.0	O.
13	19.8	O.	3	2.0	W.	23	8.1	O.	13	14.3	W.
14	7.1	W.	3	13.3	O.	23	19.4	W.	14	1.6	O.
14	18.4	O.	4	0.6	W.	24	6.7	O.	14	12.9	W.
15	5.7	W.	4	11.9	O.	24	18.0	W.	15	0.2	O.
15	17.0	O.	4	23.2	W.	25	5.3	O.	15	11.5	W.
16	4.3	W.	5	10.5	O.	25	16.7	W.	15	22.9	O.
16	15.7	O.	5	21.8	W.	26	4.0	O.	16	10.2	W.
17	3.0	W.	6	9.1	O.	26	15.3	W.	16	21.5	O.

Elongationen.

MIMAS (Fortsetzung).

	h			h			h			h	
Dez. 17	8.8	W.	Dez. 21	3.3	W.	Dez. 24	21.7	W.	Dez. 28	16.2	W.
17	20.1	O.	21	14.6	O.	25	9.0	O.	29	3.5	O.
18	7.4	W.	22	1.9	W.	25	20.3	W.	29	14.8	W.
18	18.7	O.	22	13.2	O.	26	7.7	O.	30	2.1	O.
19	6.0	W.	23	0.5	W.	26	19.0	W.	30	13.4	W.
19	17.3	O.	23	11.8	O.	27	6.3	O.	31	0.7	O.
20	4.6	W.	23	23.1	W.	27	17.6	W.	31	12.0	W.
20	15.9	O.	24	10.4	O.	28	4.9	O.	31	23.4	O.

ENCELADUS.

	h			h			h			h	
Jan. 0	12.2	W.	Jan. 21	17.9	O.	Febr. 11	23.8	W.	März 4	5.6	O.
1	4.7	O.	22	10.4	W.	12	16.3	O.	4	22.1	W.
1	21.1	W.	23	2.8	O.	13	8.7	W.	5	14.5	O.
2	13.5	O.	23	19.2	W.	14	1.2	O.	6	7.0	W.
3	6.0	W.	24	11.7	O.	14	17.6	W.	6	23.4	O.
3	22.4	O.	25	4.1	W.	15	10.0	O.	7	15.9	W.
4	14.9	W.	25	20.6	O.	16	2.5	W.	8	8.3	O.
5	7.3	O.	26	13.0	W.	16	18.9	O.	9	0.8	W.
5	23.8	W.	27	5.5	O.	17	11.4	W.	9	17.2	O.
6	16.2	O.	27	21.9	W.	18	3.8	O.	10	9.7	W.
7	8.6	W.	28	14.4	O.	18	20.3	W.	11	2.1	O.
8	1.1	O.	29	6.8	W.	19	12.7	O.	11	18.6	W.
8	17.5	W.	29	23.3	O.	20	5.2	W.	12	11.0	O.
9	10.0	O.	30	15.7	W.	20	21.6	O.	13	3.5	W.
10	2.4	W.	31	8.2	O.	21	14.1	W.	13	19.9	O.
10	18.8	O.	Febr. 1	0.6	W.	22	6.5	O.	14	12.4	W.
11	11.3	W.	1	17.1	O.	22	23.0	W.	15	4.8	O.
12	3.7	O.	2	9.5	W.	23	15.4	O.	15	21.3	W.
12	20.2	W.	3	2.0	O.	24	7.8	W.	16	13.7	O.
13	12.6	O.	3	18.4	W.	25	0.3	O.	17	6.2	W.
14	5.1	W.	4	10.9	O.	25	16.7	W.	17	22.6	O.
14	21.5	O.	5	3.3	W.	26	9.2	O.	18	15.1	W.
15	13.9	W.	5	19.8	O.	27	1.6	W.	19	7.6	O.
16	6.4	O.	6	12.2	W.	27	18.1	O.	20	0.0	W.
16	22.8	W.	7	4.7	O.	28	10.5	W.	20	16.5	O.
17	15.3	O.	7	21.1	W.	29	3.0	O.	21	8.9	W.
18	7.7	W.	8	13.6	O.	29	19.4	W.	22	1.4	O.
19	0.1	O.	9	6.0	W.	März 1	11.9	O.	22	17.8	W.
19	16.6	W.	9	22.5	O.	2	4.3	W.	23	10.3	O.
20	9.0	O.	10	14.9	W.	2	20.7	O.	24	2.7	W.
21	1.5	W.	11	7.4	O.	3	13.2	W.	24	19.2	O.

Elongationen.

ENCELADUS (Fortsetzung).

	h			h			h			h	
März 25	11.6	W.	Okt. 23	5.6	O.	Nov. 15	12.5	O.	Dez. 8	19.4	O.
26	4.1	O.	23	22.1	W.	16	5.0	W.	9	11.8	W.
			24	14.5	O.	16	21.4	O.	10	4.3	O.
			25	7.0	W.	17	13.8	W.	10	20.7	W.
			25	23.4	O.	18	6.3	O.	11	13.1	O.
			26	15.8	W.	18	22.7	W.	12	5.6	W.
Okt. 4	1.4	O.	27	8.3	O.	19	15.1	O.	12	22.0	O.
4	17.8	W.	28	0.7	W.	20	7.6	W.	13	14.5	W.
5	10.3	O.	28	17.1	O.	21	0.0	O.	14	6.9	O.
6	2.7	W.	29	9.6	W.	21	16.5	W.	14	23.4	W.
6	19.1	O.	30	2.0	O.	22	8.9	O.	15	15.8	O.
7	11.6	W.	30	18.5	W.	23	1.3	W.	16	8.2	W.
8	4.0	O.	31	10.9	O.	23	17.8	O.	17	0.7	O.
8	20.5	W.	Nov. 1	3.3	W.	24	10.2	W.	17	17.1	W.
9	12.9	O.	1	19.8	O.	25	2.6	O.	18	9.6	O.
10	5.3	W.	2	12.2	W.	25	19.1	W.	19	2.0	W.
10	21.8	O.	3	4.6	O.	26	11.5	O.	19	18.4	O.
11	14.2	W.	3	21.1	W.	27	4.0	W.	20	10.9	W.
12	6.6	O.	4	13.5	O.	27	20.4	O.	21	3.3	O.
12	23.1	W.	5	6.0	W.	28	12.8	W.	21	19.8	W.
13	15.5	O.	5	22.4	O.	29	5.3	O.	22	12.2	O.
14	8.0	W.	6	14.8	W.	29	21.7	W.	23	4.7	W.
15	0.4	O.	7	7.3	O.	30	14.1	O.	23	21.1	O.
15	16.8	W.	7	23.7	W.	Dez. 1	6.6	W.	24	13.5	W.
16	9.3	O.	8	16.1	O.	1	23.0	O.	25	6.0	O.
17	1.7	W.	9	8.6	W.	2	15.4	W.	25	22.4	W.
17	18.1	O.	10	1.0	O.	3	7.9	O.	26	14.9	O.
18	10.6	W.	10	17.5	W.	4	0.3	W.	27	7.3	W.
19	3.0	O.	11	9.9	O.	4	16.8	O.	27	23.7	O.
19	19.5	W.	12	2.3	W.	5	9.2	W.	28	16.2	W.
20	11.9	O.	12	18.8	O.	6	1.6	O.	29	8.6	O.
21	4.3	W.	13	11.2	W.	6	18.1	W.	30	1.1	W.
21	20.8	O.	14	3.6	O.	7	10.5	O.	30	17.5	O.
22	13.2	W.	14	20.1	W.	8	2.9	W.	31	10.0	W.

TETHYS.

	h			h			h			h	
Jan. 0	9.5	O.	Jan. 5	2.7	W.	Jan. 9	20.0	O.	Jan. 14	13.2	W.
1	8.1	W.	6	1.4	O.	10	18.6	W.	15	11.9	O.
2	6.8	O.	7	0.0	W.	11	17.3	O.	16	10.5	W.
3	5.4	W.	7	22.7	O.	12	15.9	W.	17	9.2	O.
4	4.1	O.	8	21.3	W.	13	14.6	O.	18	7.8	W.

Elongationen.

TETHYS (Fortsetzung).

	h			h			h			h	
Jan. 19	6.5	O.	Febr. 28	20.9	W.	Okt. 14	9.4	W.	Nov. 23	23.1	O.
20	5.1	W.	29	19.6	O.	15	8.0	O.	24	21.7	W.
21	3.8	O.	März 1	18.2	W.	16	6.7	W.	25	20.4	O.
22	2.4	W.	2	16.9	O.	17	5.3	O.	26	19.0	W.
23	1.1	O.	3	15.6	W.	18	4.0	W.	27	17.7	O.
23	23.8	W.	4	14.2	O.	19	2.6	O.	28	16.3	W.
24	22.4	O.	5	12.9	W.	20	1.3	W.	29	14.9	O.
25	21.1	W.	6	11.5	O.	20	23.9	O.	30	13.6	W.
26	19.7	O.	7	10.2	W.	21	22.5	W.	Dez. 1	12.2	O.
27	18.4	W.	8	8.9	O.	22	21.2	O.	2	10.9	W.
28	17.1	O.	9	7.5	W.	23	19.8	W.	3	9.5	O.
29	15.7	W.	10	6.2	O.	24	18.5	O.	4	8.2	W.
30	14.4	O.	11	4.9	W.	25	17.1	W.	5	6.8	O.
31	13.1	W.	12	3.5	O.	26	15.8	O.	6	5.5	W.
Febr. 1	11.7	O.	13	2.2	W.	27	14.4	W.	7	4.1	O.
2	10.4	W.	14	0.9	O.	28	13.0	O.	8	2.7	W.
3	9.0	O.	14	23.5	W.	29	11.7	W.	9	1.4	O.
4	7.7	W.	15	22.2	O.	30	10.3	O.	10	0.0	W.
5	6.4	O.	16	20.9	W.	31	9.0	W.	10	22.7	O.
6	5.0	W.	17	19.5	O.	Nov. 1	7.6	O.	11	21.3	W.
7	3.7	O.	18	18.2	W.	2	6.3	W.	12	20.0	O.
8	2.4	W.	19	16.9	O.	3	4.9	O.	13	18.6	W.
9	1.0	O.	20	15.6	W.	4	3.6	W.	14	17.3	O.
9	23.7	W.	21	14.3	O.	5	2.2	O.	15	15.9	W.
10	22.3	O.	22	13.0	W.	6	0.8	W.	16	14.5	O.
11	21.0	W.	23	11.6	O.	6	23.5	O.	17	13.2	W.
12	19.7	O.	24	10.3	W.	7	22.1	W.	18	11.8	O.
13	18.3	W.	25	9.0	O.	8	20.8	O.	19	10.5	W.
14	17.0	O.	26	7.6	W.	9	19.4	W.	20	9.1	O.
15	15.6	W.				10	18.1	O.	21	7.8	W.
16	14.3	O.				11	16.7	W.	22	6.4	O.
17	13.0	W.				12	15.4	O.	23	5.1	W.
18	11.6	O.				13	14.0	W.	24	3.7	O.
19	10.3	W.	Okt. 4	23.0	W.	14	12.6	O.	25	2.3	W.
20	9.0	O.	5	21.6	O.	15	11.3	W.	26	1.0	O.
21	7.6	W.	6	20.2	W.	16	9.9	O.	26	23.6	W.
22	6.3	O.	7	18.9	O.	17	8.6	W.	27	22.3	O.
23	4.9	W.	8	17.5	W.	18	7.2	O.	28	20.9	W.
24	3.6	O.	9	16.2	O.	19	5.9	W.	29	19.6	O.
25	2.3	W.	10	14.8	W.	20	4.5	O.	30	18.2	W.
26	0.9	O.	11	13.5	O.	21	3.2	W.	31	16.9	O.
26	23.6	W.	12	12.1	W.	22	1.8	O.			
27	22.2	O.	13	10.7	O.	23	0.4	W.			

Elongationen.

DIONE.

	h			h			h			h	
Jan. 0	19.1	W.	Febr. 14	23.1	O.	Okt. 4	18.1	O.	Nov. 18	21.3	W.
2	3.9	O.	16	8.0	W.	6	2.9	W.	20	6.1	O.
3	12.8	W.	17	16.9	O.	7	11.7	O.	21	15.0	W.
4	21.6	O.	19	1.7	W.	8	20.6	W.	22	23.8	O.
6	6.5	W.	20	10.6	O.	10	5.4	O.	24	8.6	W.
7	15.3	O.	21	19.4	W.	11	14.2	W.	25	17.4	O.
9	0.1	W.	23	4.3	O.	12	23.0	O.	27	2.3	W.
10	9.0	O.	24	13.2	W.	14	7.9	W.	28	11.1	O.
11	17.8	W.	25	22.0	O.	15	16.7	O.	29	19.9	W.
13	2.7	O.	27	6.9	W.	17	1.5	W.	Dez. 1	4.7	O.
14	11.5	W.	28	15.8	O.	18	10.3	O.	2	13.5	W.
15	20.3	O.	März 1	0.6	W.	19	19.2	W.	3	22.3	O.
17	5.2	W.	2	9.5	O.	21	4.0	O.	5	7.1	W.
18	14.0	O.	3	18.4	W.	22	12.8	W.	6	16.0	O.
19	22.9	W.	5	3.2	O.	23	21.6	O.	8	0.8	W.
21	7.7	O.	6	12.1	W.	25	6.5	W.	9	9.6	O.
22	16.6	W.	7	21.0	O.	26	15.3	O.	10	18.4	W.
24	1.4	O.	9	5.8	W.	28	0.1	W.	12	3.2	O.
25	10.3	W.	10	14.7	O.	29	8.9	O.	13	12.1	W.
26	19.1	O.	11	23.6	W.	30	17.8	W.	14	20.9	O.
28	4.0	W.	13	8.4	O.	Nov. 1	2.6	O.	16	5.7	W.
29	12.8	O.	14	17.3	W.	2	11.4	W.	17	14.5	O.
30	21.7	W.	16	2.2	O.	3	20.2	O.	18	23.3	W.
Febr. 1	6.5	O.	17	11.0	W.	5	5.1	W.	20	8.2	O.
2	15.4	W.	18	19.9	O.	6	13.9	O.	21	17.0	W.
4	0.3	O.	20	4.8	W.	7	22.7	W.	23	1.8	O.
5	9.1	W.	21	13.6	O.	9	7.5	O.	24	10.6	W.
6	18.0	O.	22	22.5	W.	10	16.4	W.	25	19.5	O.
8	2.8	W.	24	7.4	O.	12	1.2	O.	27	4.3	W.
9	11.7	O.	25	16.2	W.	13	10.0	W.	28	13.2	O.
10	20.6	W.				14	18.8	O.	29	22.0	W.
12	5.4	O.				16	3.7	W.	31	6.8	O.
13	14.3	W.				17	12.5	O.			

RHEA.

	h			h			h			h	
Jan. 0	10.4	O.	Jan. 13	23.7	O.	Jan. 27	13.0	O.	Febr. 10	2.3	O.
2	16.6	W.	16	5.9	W.	29	19.2	W.	12	8.6	W.
4	22.8	O.	18	12.1	O.	Febr. 1	1.4	O.	14	14.8	O.
7	5.0	W.	20	18.4	W.	3	7.7	W.	16	21.1	W.
9	11.2	O.	23	0.6	O.	5	13.9	O.	19	3.4	O.
11	17.4	W.	25	6.8	W.	7	20.1	W.	21	9.6	W.

Elongationen.

RHEA (Fortsetzung).

	h			h			h			h	
Febr. 23	15.9	O.	Okt. 4	12.7	W.	Nov. 7	9.1	O.	Dez. 11	5.4	W.
25	22.1	W.	6	18.9	O.	9	15.3	W.	13	11.5	O.
28	4.4	O.	9	1.0	W.	11	21.4	O.	15	17.7	W.
März 1	10.6	W.	11	7.2	O.	14	3.6	W.	17	23.9	O.
3	16.9	O.	13	13.3	W.	16	9.7	O.	20	6.1	W.
5	23.1	W.	15	19.5	O.	18	15.9	W.	22	12.2	O.
8	5.4	O.	18	1.6	W.	20	22.1	O.	24	18.4	W.
10	11.6	W.	20	7.8	O.	23	4.2	W.	27	0.6	O.
12	17.9	O.	22	14.0	W.	25	10.4	O.	29	6.8	W.
15	0.2	W.	24	20.1	O.	27	16.5	W.	31	12.9	O.
17	6.5	O.	27	2.3	W.	29	22.7	O.			
19	12.8	W.	29	8.4	O.	Dez. 2	4.8	W.			
21	19.1	O.	31	14.6	W.	4	10.9	O.			
24	1.4	W.	Nov. 2	20.8	O.	6	17.1	W.			
26	7.7	O.	5	2.9	W.	8	23.2	O.			

TITAN.

	h			h			h			h	
Jan. 4	18.1	W.	Febr. 21	15.4	W.	Okt. 10	21.5	O.	Nov. 27	13.6	O.
12	20.1	O.	29	18.3	O.	18	15.6	W.	Dez. 5	7.8	W.
20	16.8	W.	März 8	15.4	W.	26	19.1	O.	13	10.8	O.
28	19.0	O.	16	18.6	O.	Nov. 3	13.2	W.	21	5.2	W.
Febr. 5	15.9	W.	24	15.8	W.	11	16.4	O.	29	8.3	O.
13	18.4	O.				19	10.5	W.			

HYPERION.

	h			h			h			h	
Jan. 7	23.0	W.	Febr. 19	10.6	W.	Okt. 12	10.2	W.	Nov. 23	23.6	W.
19	22.8	O.	März 2	11.9	O.	24	5.0	O.	Dez. 5	17.6	O.
29	4.0	W.	11	18.7	W.	Nov. 2	17.4	W.	15	5.6	W.
Febr. 10	4.6	O.	23	20.8	O.	14	11.6	O.	26	23.7	O.

Elongationen und Konjunktionen.

JAPETUS.

	h			h	
Jan. 16	1.3	Untere Konjunktion	Okt. 4	8.3	Westliche Elongation
Febr. 4	4.2	Westliche Elongation	23	0.8	Obere Konjunktion
24	0.7	Obere Konjunktion	Nov. 11	20.6	Östliche Elongation
März 15	6.3	Östliche Elongation	Dez. 2	6.7	Untere Konjunktion
			21	12.2	Westliche Elongation

Jan.	1	6^h	♀ gr. nördl. hel. Breite
	1	19	☿ gr. nördl. hel. Breite
	3	0	☉ im Perigäum
	9	10	♀ ☌ ♃, ♀ 1° 38′ nördl.
	13	11	♆ ☍ ☉
	14	19	♃ ☌ ☾
	15	6	♀ ☌ ☾
	15	11	☿ gr. westl. Elong., 23° 51′
	16	19	☿ ☌ ☾
	20	8	♅ ☌ ☉
	25	6	☿ im ☋
	27	13	♄ ☌ ☾
	28	15	♂ ☌ ☾, Bedeckung
Febr.	3	9	♄ □ ☉
	4	12	☿ im Aphel
	6	19	☿ ☌ ♅, ☿ 0° 55′ südl.
	11	10	♃ ☌ ☾
	11	2	α Scorpii ☌ ☾, Bedeckung
	14	11	♀ ☌ ☾
	16	17	☿ ☌ ☾
	23	21	♄ ☌ ☾
	24	10	♀ ☌ ♅, ♀ 0° 39′ nördl.
	24	20	☿ gr. südl. hel. Breite
	25	17	♂ ☌ ☾
	26	8	♀ im ☋
	26	11	β Tauri ☌ ☾, Bedeckung
März	2	3	☿ obere ☌ ☉
	4	6	♂ □ ☉
	4	17	♃ □ ☉
	9	10	α Scorpii ☌ ☾, Bedeckung
	9	23	♃ ☌ ☾
	14	21	☿ im ☊
	15	20	♀ ☌ ☾
	19	11	☿ im Perihel
	19	17	☿ ☌ ☾
	20	12	☉ im ♈, Frühlingsanfang
	22	7	♄ ☌ ☾
	24	16	β Tauri ☌ ☾, Bedeckung
	24	21	♂ ☌ ☾
	27	14	☿ gr. östl. Elong., 18° 51′
	29	19	☿ gr. nördl. hel. Breite
	31	18	♀ im Aphel
April	1	—	☾ Finsternis
	5	19	α Scorpii ☌ ☾, Bedeckung
	6	9	♃ ☌ ☾
	10	20	♆ □ ☉
	15	1	☿ untere ☌ ☉
	15	6	♀ ☌ ☾, Bedeckung
April	16	18^h	☿ ☌ ☾
	17	—	☉ Finsternis
	18	19	♄ ☌ ☾
	20	22	β Tauri ☌ ☾, Bedeckung
	22	4	♂ ☌ ☾
	22	6	☿ im ☋
	23	4	♀ gr. südl. hel. Breite
	23	11	♅ □ ☉
	27	13	☿ ☌ ♀, ☿ 0° 10′ nördl.
Mai	2	11	☿ im Aphel
	3	3	α Scorpii ☌ ☾, Bedeckung
	3	15	♃ ☌ ☾
	4	5	♂ gr. nördl. hel. Breite
	12	16	♂ ☌ ♆, ♂ 2° 9′ nördl.
	12	22	☿ gr. westl. Elong., 26° 3′
	14	7	♄ ☌ ☉
	14	14	☿ ☌ ☾
	15	11	♀ ☌ ☾
	16	10	♄ ☌ ☾
	20	13	♂ ☌ ☾
	22	20	☿ gr. südl. hel. Breite
	27	9	♀ ☌ ♄, ♀ 1° 6′ nördl.
	30	11	α Scorpii ☌ ☾, Bedeckung
	30	17	♃ ☌ ☾
	31	23	♃ ☍ ☉
Juni	2	17	☿ ☌ ♄, ☿ 0° 28′ nördl.
	8	20	♂ im Aphel
	10	20	☿ im ☊
	11	18	☿ ☌ ♀, ☿ 0° 26′ nördl.
	13	2	♄ ☌ ☾
	14	10	♀ ☌ ☾
	14	14	☿ ☌ ☾
	15	11	☿ im Perihel
	17	1	☿ obere ☌ ☉
	18	0	♂ ☌ ☾
	18	11	♀ im ☊
	21	8	☉ im ♋, Sommersanfang
	25	18	☿ gr. nördl. hel. Breite
	26	17	α Scorpii ☌ ☾, Bedeckung
	26	17	♃ ☌ ☾
	29	20	☿ ☌ ♆, ☿ 2° 27′ nördl.
Juli	4	12	☉ im Apogäum
	5	15	♀ obere ☌ ☉
	10	17	♄ ☌ ☾
	12	2	β Tauri ☌ ☾, Bedeckung
	13	9	♀ ☌ ♆ ♀ 1° 27′ nördl.
	14	0	♂ ☌ α Leonis, ♂ 0° 42′ nördl.
	14	5	♀ ☌ ☾

Monat	Tag	h	Konstellation
Juli	15	18	☿ ☌ ☾
	16	0	♆ ☌ ☉
	16	13	♂ ☌ ☾
	19	5	☿ im ☋
	22	2	♀ im Perihel
	23	19	♃ ☌ ☾
	23	23	α Scorpii ☌ ☾, Bedeckung
	24	8	♅ ☍ ☉
	25	0	☿ ☌ α Leonis, ☿ 1° 38′ südl.
	25	4	☿ gr. östl. Elong., 27° 5′
	29	10	☿ im Aphel
Aug.	7	6	♄ ☌ ☾
	8	11	β Tauri ☌ ☾, Bedeckung
	10	20	♀ ☌ α Leonis, ♀ 1° 3′ nördl.
	12	23	♀ gr. nördl. hel. Breite
	13	1	♀ ☌ ☾
	13	5	☿ ☌ ☾
	14	5	♂ ☌ ☾
	16	15	α Virginis ☌ ☾, Bedeckung
	18	19	☿ gr. südl. hel. Breite
	20	2	♃ ☌ ☾
	20	5	α Scorpii ☌ ☾, Bedeckung
	21	22	☿ untere ☌ ☉
	26	23	♄ □ ☉
	30	1	♃ □ ☉
Sept.	3	15	♄ ☌ ☾
	4	19	β Tauri ☌ ☾, Bedeckung
	6	20	☿ im ☊
	7	17	☿ gr. westl. Elong., 17° 58′
	8	22	♀ ☌ ♂, ♀ 0° 29′ nördl.
	9	1	☿ ☌ α Leonis, ☿ 0° 5′ nördl.
	9	8	☿ ☌ ☾
	11	10	☿ im Perihel
	11	23	♂ ☌ ☾
	12	2	♀ ☌ ☾
	13	1	α Virginis ☌ ☾, Bedeckung
	16	13	α Scorpii ☌ ☾, Bedeckung
	16	14	♃ ☌ ☾
	21	17	☿ gr. nördl. hel. Breite
	22	23	☉ in ♎, Herbstanfang
	26	—	☾ Finsternis
	30	20	♄ ☌ ☾
Okt.	2	1	β Tauri ☌ ☾, Bedeckung
	3	19	☿ obere ☌ ☉
	5	5	♂ ☌ α Virginis, ♂ 2° 39′ nördl.
	8	1	♀ im ☋
	10	—	☉ Finsternis
Okt.	10	12	☿ ☌ ☾
	10	18	♂ ☌ ☾
	12	5	♀ ☌ ☾
	13	18	☿ ☌ ♂, ☿ 0° 12′ südl.
	13	22	α Scorpii ☌ ☾, Bedeckung
	14	17	♃ ☌ ☾
	15	4	☿ im ☋
	19	7	♆ □ ☉
	22	22	♅ □ ☉
	25	10	☿ im Aphel
	28	0	♄ ☌ ☾
	29	7	β Tauri ☌ ☾, Bedeckung
Nov.	4	16	♂ ☌ ☉
	7	17	♀ ☌ ♃, ♀ 1° 43′ südl.
	8	14	♂ ☌ ☾
	10	2	☿ ☌ α Scorpii, ☿ 2° 8′ nördl.
	10	8	☿ ☌ ☾
	11	2	♃ ☌ ☾
	11	9	♀ ☌ ☾
	11	11	♀ im Aphel
	14	18	☿ gr. südl. hel. Breite
	17	19	♂ im ☋
	19	2	☿ gr. östl. Elong., 22° 14
	20	18	☿ ☌ ♃ ☿ 2° 47′ südl.
	22	19	♄ ☍ ☉
	24	4	♄ ☌ ☾
	25	14	β Tauri ☌ ☾, Bedeckung
	27	0	♀ ☌ σ Sagittarii, ♀ 1° 28′ nördl.
Dez.	2	19	☿ ☌ ♃, ☿ 0° 36′ südl.
	3	19	☿ im ☊
	3	21	♀ gr. südl. hel. Breite
	4	3	α Virginis ☌ ☾, Bedeckung
	7	11	♂ ☌ ☾
	8	8	☿ ☌ ☾
	8	9	☿ im Perihel
	8	12	☿ untere ☌ ☉
	8	22	♃ ☌ ☾
	11	16	♀ ☌ ☾
	13	4	♀ ☌ ♅, ♀ 1° 36′ südl.
	18	9	♃ ☌ ☉
	18	16	☿ gr. nördl. hel. Breite
	21	11	♄ ☌ ☾
	21	18	☉ im ♑, Wintersanfang
	23	0	β Tauri ☌ ☾, Bedeckung
	27	22	☿ gr. westl. Elong., 22° 23′
	31	9	α Virginis ☌ ☾, Bedeckung
	31	15	☉ im Perigäum

Zur Berechnung der physischen Mondlibration 1912.

12^h		M	M'	ω	12^h		M	M'	ω
		°	°	°			°	°	°
Jan.	1	326.0	358.8	75.6	Juli	9	288.4	186.1	106.8
	11	96.7	8.7	77.2		19	59.0	195.9	108.5
	21	227.3	18.5	78.9		29	189.7	205.8	110.1
	31	358.0	28.4	80.5	Aug.	8	320.3	215.7	111.8
Febr.	10	128.6	38.2	82.2		18	91.0	225.5	113.4
	20	259.3	48.1	83.8		28	221.6	235.4	115.1
März	1	29.9	58.0	85.5	Sept.	7	352.3	245.2	116.7
	11	160.6	67.8	87.1		17	122.9	255.1	118.3
	21	291.2	77.7	88.8		27	253.6	264.9	120.0
	31	61.9	87.5	90.4	Okt.	7	24.2	274.8	121.6
April	10	192.5	97.4	92.0		17	154.9	284.6	123.3
	20	323.2	107.2	93.7		27	285.5	294.5	124.9
	30	93.8	117.1	95.3	Nov.	6	56.2	304.4	126.6
Mai	10	224.5	126.9	97.0		16	186.8	314.2	128.2
	20	355.1	136.8	98.6		26	317.5	324.1	129.8
	30	125.8	146.6	100.3	Dez.	6	88.1	333.9	131.5
Juni	9	256.4	156.5	101.9		16	218.8	343.8	133.1
	19	27.1	166.4	103.5		26	349.4	353.6	134.8
	29	157.7	176.2	105.2		36	120.1	3.5	136.4

Bewegung von M			
d	°	d	°
1	13.1	6	78.4
2	26.1	7	91.5
3	39.2	8	104.5
4	52.3	9	117.6
5	65.3	10	130.6
h	°	h	°
1	0.5	13	7.1
2	1.1	14	7.6
3	1.6	15	8.2
4	2.2	16	8.7
5	2.7	17	9.3
6	3.3	18	9.8
7	3.8	19	10.3
8	4.4	20	10.9
9	4.9	21	11.4
10	5.4	22	12.0
11	6.0	23	12.5
12	6.5	24	13.1

M = Mittlere Anomalie des Mondes.

M' = Mittlere Anomalie der Sonne.

ω = Abstand des Mondperigäums vom aufsteigenden Knoten der Mondbahn auf der Ekliptik.

$J = 1° 32' 6''$ = Mittlere Neigung des Mondäquators gegen die Ekliptik.

$\tau = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\omega$.

$\rho = -107'' \cos M + 37'' \cos (M + 2\omega) - 11'' \cos (2M + 2\omega)$.

$\sigma \sin J = -109'' \sin M + 37'' \sin (M + 2\omega) - 11'' \sin (2M + 2\omega)$.

τ, ρ, σ sind die Beträge der physischen Mondlibration in selenographischer Länge, der Neigung und dem Knoten des Mondäquators auf der Ekliptik.

Tafel zur Berechnung der optischen Mondlibration.

λ−☊	Δλ	$\frac{1}{a}$	*B*	Diff.	λ−☊	Δλ	$\frac{1}{a}$	*B*	Diff.
0°	+0.0′	+37	+0° 0.0′	1.6	35°	+0.6′	+ 45	+0° 52.8′	1.3
1	0.0	37	0 1.6	1.6	36	0.6	46	0 54.1	1.3
2	0.0	37	0 3.2	1.6	37	0.6	47	0 55.4	1.3
3	0.1	37	0 4.8	1.6	38	0.6	47	0 56.7	1.3
4	0.1	37	0 6.4	1.6	39	0.6	48	0 58.0	1.2
5	+0.1	+37	+0 8.0	1.6	40	+0.6	+ 49	+0 59.2	1.2
6	0.1	37	0 9.6	1.6	41	0.6	49	1 0.4	1.2
7	0.1	38	0 11.2	1.6	42	0.6	50	1 1.6	1.2
8	0.2	38	0 12.8	1.6	43	0.6	51	1 2.8	1.2
9	0.2	38	0 14.4	1.6	44	0.6	52	1 4.0	1.2
10	+0.2	+38	+0 16.0	1.6	45	+0.6	+ 53	+1 5.2	1.1
11	0.2	38	0 17.6	1.5	46	0.6	54	1 6.3	1.1
12	0.2	38	0 19.1	1.6	47	0.6	55	1 7.4	1.1
13	0.3	38	0 20.7	1.6	48	0.6	56	1 8.5	1.1
14	0.3	38	0 22.3	1.6	49	0.6	57	1 9.6	1.0
15	+0.3	+39	+0 23.9	1.5	50	+0.6	+ 58	+1 10.6	1.1
16	0.3	39	0 25.4	1.6	51	0.6	59	1 11.7	1.0
17	0.3	39	0 27.0	1.5	52	0.6	60	1 12.7	1.0
18	0.4	39	0 28.5	1.6	53	0.6	61	1 13.7	0.9
19	0.4	39	0 30.1	1.5	54	0.6	63	1 14.6	0.9
20	+0.4	+40	+0 31.6	1.5	55	+0.6	+ 65	+1 15.5	0.9
21	0.4	40	0 33.1	1.5	56	0.6	67	1 16.4	0.9
22	0.4	40	0 34.6	1.5	57	0.6	69	1 17.3	0.8
23	0.4	41	0 36.1	1.4	58	0.6	71	1 18.1	0.9
24	0.5	41	0 37.5	1.5	59	0.5	73	1 19.0	0.8
25	+0.5	+41	+0 39.0	1.4	60	+0.5	+ 75	+1 19.8	0.8
26	0.5	41	0 40.4	1.5	61	0.5	77	1 20.6	0.7
27	0.5	42	0 41.9	1.4	62	0.5	79	1 21.3	0.8
28	0.5	42	0 43.3	1.4	63	0.5	82	1 22.1	0.7
29	0.5	43	0 44.7	1.4	64	0.5	85	1 22.8	0.7
30	+0.5	+43	+0 46.1	1.4	65	+0.5	+ 88	+1 23.5	0.6
31	0.5	43	0 47.5	1.3	66	0.5	92	1 24.1	0.7
32	0.6	44	0 48.8	1.3	67	0.4	96	1 24.8	0.6
33	0.6	44	0 50.1	1.3	68	0.4	100	1 25.4	0.6
34	0.6	45	0 51.4	1.4	69	0.4	104	1 26.0	0.5
35	+0.6	+45	+0 52.8		70	+0.4	+109	+1 26.5	

Tafel zur Berechnung der optischen Mondlibration.

λ−☋	Δλ	$\frac{1}{a}$	B		λ−☋	Δλ	$\frac{1}{a}$	B	
70°	+0.4′	+109	+1° 26.5′	0.6	80°	+0.2′	+ 215	+1° 30.7′	0.2
71	0.4	115	1 27.1	0.5	81	0.2	239	1 30.9	0.2
72	0.4	121	1 27.6	0.5	82	0.2	268	1 31.1	0.2
73	0.3	128	1 28.1	0.5	83	0.1	306	1 31.3	0.2
74	0.3	136	1 28.6	0.4	84	0.1	357	1 31.5	0.2
75	+0.3	+144	+1 29.0	0.4	85	+0.1	+ 429	+1 31.7	0.1
76	0.3	154	1 29.4	0.4	86	0.1	535	1 31.8	0.1
77	0.3	166	1 29.8	0.3	87	0.1	713	1 31.9	0.1
78	0.2	180	1 30.1	0.3	88	0.0	1070	1 32.0	0.1
79	0.2	196	1 30.4	0.3	89	0.0	+2139	1 32.1	0.0
80	+0.2	+215	+1 30.7		90	0.0	∞	+1 32.1	

$J = 1^\circ\ 32'\ 6''$ = Neigung des Mondäquators gegen die Ekliptik.

☋ = 180° + ☊ = Länge des absteigenden Knotens der Mondbahn auf der Ekliptik (siehe Tafel S. 88).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$$\Delta\lambda = \operatorname{tg}\frac{J^2}{2} \sin 2\,(\lambda - ☋)\ 3437'.75 \qquad \frac{1}{a} = \frac{1}{\cos(\lambda - ☋)\sin J}$$

$$\operatorname{tg} B = \sin(\lambda - ☋)\operatorname{tg} J$$

l_0 = Mittlere Länge des Mondes (siehe Tafel S. 88)

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

$$l' = \lambda + \Delta\lambda - \frac{B - \beta}{\frac{1}{a}} - l_0$$

$$b' = B - \beta.$$

Für λ − ☋ zwischen 90° und 180° gehe man mit dem Argument 180° − (λ − ☋) in die Tafel ein und nehme Δλ und $\frac{1}{a}$ negativ.

Für λ − ☋ zwischen 180° und 270° gehe man mit dem Argument λ − ☋ − 180° in die Tafel ein und nehme $\frac{1}{a}$ und B negativ.

Für λ − ☋ zwischen 270° und 360 gehe man mit dem Argument 360° − (λ − ☋) in die Tafel ein und nehme Δλ und B negativ.

Bruchteile des Jahres 1912,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

Monats-tag	Januar		Februar		März		April		Mai		Juni	
	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch	Jahres-tag	Jahres-bruch
1	0	-0.0007	31	0.0842	60	0.1636	91	0.2484	121	0.3306	152	0.4155
2	1	+ 0020	32	0869	61	1663	92	2512	122	3333	153	4182
3	2	0048	33	0896	62	1690	93	2539	123	3361	154	4209
4	3	0075	34	0924	63	1718	94	2567	124	3388	155	4237
5	4	0102	35	0951	64	1745	95	2594	125	3415	156	4264
6	5	0.0130	36	0.0979	65	0.1773	96	0.2621	126	0.3443	157	0.4291
7	6	0157	37	1006	66	1800	97	2649	127	3470	158	4319
8	7	0185	38	1033	67	1827	98	2676	128	3497	159	4346
9	8	0212	39	1061	68	1855	99	2703	129	3525	160	4374
10	9	0239	40	1088	69	1882	100	2731	130	3552	161	4401
11	10	0.0267	41	0.1115	70	0.1909	101	0.2758	131	0.3580	162	0.4428
12	11	0294	42	1143	71	1937	102	2786	132	3607	163	4456
13	12	0322	43	1170	72	1964	103	2813	133	3634	164	4483
14	13	0349	44	1198	73	1992	104	2840	134	3662	165	4510
15	14	0376	45	1225	74	2019	105	2868	135	3689	166	4538
16	15	0.0404	46	0.1252	75	0.2046	106	0.2895	136	0.3717	167	0.4565
17	16	0431	47	1280	76	2074	107	2923	137	3744	168	4593
18	17	0458	48	1307	77	2101	108	2950	138	3771	169	4620
19	18	0486	49	1335	78	2129	109	2977	139	3799	170	4647
20	19	0513	50	1362	79	2156	110	3005	140	3826	171	4675
21	20	0.0541	51	0.1389	80	0.2183	111	0.3032	141	0.3853	172	0.4702
22	21	0568	52	1417	81	2211	112	3059	142	3881	173	4729
23	22	0595	53	1444	82	2238	113	3087	143	3908	174	4757
24	23	0623	54	1471	83	2265	114	3114	144	3935	175	4784
25	24	0650	55	1499	84	2293	115	3142	145	3963	176	4812
26	25	0.0677	56	0.1526	85	0.2320	116	0.3169	146	0.3990	177	0.4839
27	26	0705	57	1554	86	2348	117	3196	147	4018	178	4866
28	27	0732	58	1581	87	2375	118	3224	148	4045	179	4894
29	28	0760	59	1608	88	2402	119	3251	149	4072	180	4921
30	29	0787	60	1636	89	2430	120	3278	150	4100	181	4949
31	30	0.0814			90	0.2457	121	0.3306	151	0.4127	182	0.4976
32	31	0842			91	2484			152	4155		

Bruchteile des Jahres 1912,

für 0^h Mittl. Zeit der mittleren Sonnentage, gezählt vom Beginn des annus fictus.

Monatstag	Juli		August		September		Oktober		November		Dezember	
	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch	Jahrestag	Jahresbruch
1	182	0.4976	213	0.5825	244	0.6673	274	0.7495	305	0.8344	335	0.9165
2	183	5003	214	5852	245	6701	275	7522	306	8371	336	9192
3	184	5031	215	5879	246	6728	276	7550	307	8398	337	9220
4	185	5058	216	5907	247	6756	277	7577	308	8426	338	9247
5	186	5085	217	5934	248	6783	278	7604	309	8453	339	9274
6	187	0.5113	218	0.5962	249	0.6810	279	0.7632	310	0.8480	340	0.9302
7	188	5140	219	5989	250	6838	280	7659	311	8508	341	9329
8	189	5168	220	6016	251	6865	281	7686	312	8535	342	9357
9	190	5195	221	6044	252	6892	282	7714	313	8563	343	9384
10	191	5222	222	6071	253	6920	283	7741	314	8590	344	9411
11	192	0.5250	223	0.6098	254	0.6947	284	0.7769	315	0.8617	345	0.9439
12	193	5277	224	6126	255	6975	285	7796	316	8645	346	9466
13	194	5304	225	6153	256	7002	286	7823	317	8672	347	9493
14	195	5332	226	6181	257	7029	287	7851	318	8699	348	9521
15	196	5359	227	6208	258	7057	288	7878	319	8727	349	9548
16	197	0.5387	228	0.6235	259	0.7084	289	0.7905	320	0.8754	350	0.9576
17	198	5414	229	6263	260	7112	290	7933	321	8782	351	9603
18	199	5441	230	6290	261	7139	291	7960	322	8809	352	9630
19	200	5469	231	6317	262	7166	292	7988	323	8836	353	9658
20	201	5496	232	6345	263	7194	293	8015	324	8864	354	9685
21	202	0.5523	233	0.6372	264	0.7221	294	0.8042	325	0.8891	355	0.9712
22	203	5551	234	6400	265	7248	295	8070	326	8918	356	9740
23	204	5578	235	6427	266	7276	296	8097	327	8946	357	9767
24	205	5606	236	6454	267	7303	297	8124	328	8973	358	9795
25	206	5633	237	6482	268	7331	298	8152	329	9001	359	9822
26	207	0.5660	238	0.6509	269	0.7358	299	0.8179	330	0.9028	360	0.9849
27	208	5688	239	6537	270	7385	300	8207	331	9055	361	9877
28	209	5715	240	6564	271	7413	301	8234	332	9083	362	9904
29	210	5743	241	6591	272	7440	302	8261	333	9110	363	9932
30	211	5770	242	6619	273	7467	303	8289	334	9138	364	9959
31	212	0.5797	243	0.6646	274	0.7495	304	0.8316	335	0.9165	365	0.9986
32	213	5825	244	6673			305	8344			366	1.0014

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21058	57583	94108	30633	67158	03683	40208	76733	13258	49783
4	22519	59044	95569	32094	68619	05144	41669	78194	14719	51244
8	23980	60505	97030	33555	70080	06605	43130	79655	16180	52705
12	25441	61966	98491	35016	71541	08066	44591	81116	17641	54166
16	26902	63427	99952	36477	73002	09527	46052	82577	19102	55627
20	28363	64888	01413	37938	74463	10988	47513	84038	20563	57088
24	29824	66349	02874	39399	75924	12449	48974	85499	22024	58549
28	31285	67810	04335	40860	77385	13910	50435	86960	23485	60010
32	32746	69271	05796	42321	78846	15371	51896	88421	24946	61471
36	34207	70732	07257	43782	80307	16832	53357	89882	26407	62932
40	35668	72193	08718	45243	81768	18293	54818	91343	27868	64393
44	37129	73654	10179	46704	83229	19754	56279	92804	29329	65854
48	38590	75115	11640	48165	84690	21215	57740	94265	30790	67315
52	40051	76576	13101	49626	86151	22676	59201	95726	32251	68776
56	41512	78037	14562	51087	87612	24137	60662	97187	33712	70237
60	42973	79498	16023	52548	89073	25598	62123	98648	35173	71698
64	44434	80959	17484	54009	90534	27059	63584	00109	36634	73159
68	45895	82420	18945	55470	91995	28520	65045	01570	38095	74620
72	47356	83881	20406	56931	93456	29981	66506	03031	39556	76081
76	48817	85342	21867	58392	94917	31442	67967	04492	41017	77542
80	50278	86803	23328	59853	96378	32903	69428	05953	42478	79003
84	51739	88264	24789	61314	97839	34364	70889	07414	43939	80464
88	53200	89725	26250	62775	99300	35825	72350	08875	45400	81925
92	54661	91186	27711	64236	00761	37286	73811	10336	46861	83386
96	56122	92647	29172	65697	02222	38747	75272	11797	48322	84847
100	57583	94108	30633	67158	03683	40208	76733	13258	49783	86308
	17	17	18	18	19	19	19	20	20	20

Jahr n. Chr.	Tage
0	1721058
1	1721424
2	1721789
3	1722154
4	1722519

Jahr n. Chr.	Tage
1580	2298153
1581	2298519
1582	2298884
1583	2299239
1584	2299604

Julianische Periode.

Anzahl der am Mittag des 1. Januar eines jeden Schaltjahrs seit Anfang der Periode verflossenen Tage.

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86308	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*
4	87769	24294	60819	97344	33869	70394	06909	43433	79957	16481
8	89230	25755	62280	98805	35330	71855	08370	44894	81418	17942
12	90691	27216	63741	00266	36791	73316	09831	46355	82879	19403
16	92152	28677	65202	01727	38252	74777	11292	47816	84340	20864
20	93613	30138	66663	03188	39713	76238	12753	49277	85801	22325
24	95074	31599	68124	04649	41174	77699	14214	50738	87262	23786
28	96535	33060	69585	06110	42635	79160	15675	52199	88723	25247
32	97996	34521	71046	07571	44096	80621	17136	53660	90184	26708
36	99457	35982	72507	09032	45557	82082	18597	55121	91645	28169
40	00918	37443	73968	10493	47018	83543	20058	56582	93106	29630
44	02379	38904	75429	11954	48479	85004	21519	58043	94567	31091
48	03840	40365	76890	13415	49940	86465	22980	59504	96028	32552
52	05301	41826	78351	14876	51401	87926	24441	60965	97489	34013
56	06762	43287	79812	16337	52862	89387	25902	62426	98950	35474
60	08223	44748	81273	17798	54323	90848	27363	63887	00411	36935
64	09684	46209	82734	19259	55784	92309	28824	65348	01872	38396
68	11145	47670	84195	20720	57245	93770	30285	66809	03333	39857
72	12606	49131	85656	22181	58706	95231	31746	68270	04794	41318
76	14067	50592	87117	23642	60167	96692	33207	69731	06255	42779
80	15528	52053	88578	25103	61628	98153	34668	71192	07716	44240
84	16989	53514	90039	26564	63089	99604	36129	72653	09177	45701
88	18450	54975	91500	28025	64550	01065	37590	74114	10638	47162
92	19911	56436	92961	29486	66011	02526	39051	75575	12099	48623
96	21372	57897	94422	30947	67472	03987	40512	77036	13560	50084
100	22833	59358	95883	32408	68933	05448	41973*	78497*	15021*	51545
	21	21	21	22	22	23	23	23	24	24

Anm. Die mit * bezeichneten Jahre sind Gemeinjahre.

Jahr n. Chr.	Tage	Jahr n. Chr.	Tage	Jahr n. Chr.	Tage
1700	2341973	1800	2378497	1900	2415021
1701	2342338	1801	2378862	1901	2415386
1702	2342703	1802	2379227	1902	2415751
1703	2343068	1803	2379592	1903	2416116
1704	2343433	1804	2379957	1904	2416481

Zur Verwandlung der Mittl. Zeit in Sternzeit.

Tafel I.

Red. auf St.-Zt. (m s)	Mittl. Zt. (h m s)
+ 0 0	0 0 0
0 10	1 0 52
0 20	2 1 45
0 30	3 2 37
0 40	4 3 30
0 50	5 4 22
+ 1 0	6 5 15
1 10	7 6 7
1 20	8 6 59
1 30	9 7 52
1 40	10 8 44
1 50	11 9 37
+ 2 0	12 10 29
2 10	13 11 21
2 20	14 12 14
2 30	15 13 6
2 40	16 13 59
2 50	17 14 51
+ 3 0	18 15 44
3 10	19 16 36
3 20	20 17 28
3 30	21 18 21
3 40	22 19 13
3 50	23 20 6
4 0	24 20 58

Tafel II.

Red. auf St.-Zt. (s)	Mittl. Zt. (m s)	Red. auf St.-Zt. (s)	Mittl. Zt. (m s)	Red. auf St.-Zt. (s)	Mittl. Zt. (m s)
+ 0.0	0 0	+ 4.0	24 21	+ 8.0	48 42
0.1	0 37	4.1	24 58	8.1	49 19
0.2	1 13	4.2	25 34	8.2	49 55
0.3	1 50	4.3	26 11	8.3	50 32
0.4	2 26	4.4	26 47	8.4	51 8
0.5	3 3	4.5	27 24	8.5	51 45
0.6	3 39	4.6	28 0	8.6	52 21
0.7	4 16	4.7	28 37	8.7	52 58
0.8	4 52	4.8	29 13	8.8	53 34
0.9	5 29	4.9	29 50	8.9	54 11
+ 1.0	6 5	+ 5.0	30 26	+ 9.0	54 47
1.1	6 42	5.1	31 3	9.1	55 24
1.2	7 18	5.2	31 39	9.2	56 0
1.3	7 55	5.3	32 16	9.3	56 37
1.4	8 31	5.4	32 52	9.4	57 13
1.5	9 8	5.5	33 29	9.5	57 50
1.6	9 44	5.6	34 5	9.6	58 26
1.7	10 21	5.7	34 42	9.7	59 3
1.8	10 57	5.8	35 18	9.8	59 39
1.9	11 34	5.9	35 55	9.9	60 16
+ 2.0	12 10	+ 6.0	36 31		
2.1	12 47	6.1	37 8		
2.2	13 23	6.2	37 44		
2.3	14 0	6.3	38 21		
2.4	14 36	6.4	38 57		
2.5	15 13	6.5	39 34		
2.6	15 49	6.6	40 10		
2.7	16 26	6.7	40 47		
2.8	17 2	6.8	41 23		
2.9	17 39	6.9	42 0		
+ 3.0	18 16	+ 7.0	42 37		
3.1	18 53	7.1	43 14		
3.2	19 29	7.2	43 50		
3.3	20 6	7.3	44 27		
3.4	20 42	7.4	45 3		
3.5	21 19	7.5	45 40		
3.6	21 55	7.6	46 16		
3.7	22 32	7.7	46 53		
3.8	23 8	7.8	47 29		
3.9	23 45	7.9	48 6		

Tafel III.

(s)	(m s)
+ 0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung der Sternzeit in Mittl. Zeit.

Tafel I.

Red. auf Mittl. Zt.	Stern-Zt.
m s	h m s
— 0 0	0 0 0
0 10	1 1 2
0 20	2 2 5
0 30	3 3 7
0 40	4 4 10
0 50	5 5 12
— 1 0	6 6 15
1 10	7 7 17
1 20	8 8 19
1 30	9 9 22
1 40	10 10 24
1 50	11 11 27
— 2 0	12 12 29
2 10	13 13 31
2 20	14 14 34
2 30	15 15 36
2 40	16 16 39
2 50	17 17 41
— 3 0	18 18 44
3 10	19 19 46
3 20	20 20 48
3 30	21 21 51
3 40	22 22 53
3 50	23 23 56
4 0	24 24 58

Tafel II.

Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.	Red. auf Mittl. Zt.	Stern-Zt.
s	m s	s	m s	s	m s
— 0.0	0 0	— 4.0	24 25	— 8.0	48 50
0.1	0 37	4.1	25 2	8.1	49 27
0.2	1 13	4.2	25 38	8.2	50 3
0.3	1 50	4.3	26 15	8.3	50 40
0.4	2 26	4.4	26 51	8.4	51 16
0.5	3 3	4.5	27 28	8.5	51 53
0.6	3 40	4.6	28 5	8.6	52 30
0.7	4 16	4.7	28 41	8.7	53 6
0.8	4 53	4.8	29 18	8.8	53 43
0.9	5 30	4.9	29 55	8.9	54 20
— 1.0	6 6	— 5.0	30 31	— 9.0	54 56
1.1	6 43	5.1	31 8	9.1	55 33
1.2	7 19	5.2	31 44	9.2	56 9
1.3	7 56	5.3	32 21	9.3	56 46
1.4	8 32	5.4	32 57	9.4	57 22
1.5	9 9	5.5	33 34	9.5	57 59
1.6	9 46	5.6	34 11	9.6	58 36
1.7	10 22	5.7	34 47	9.7	59 12
1.8	10 59	5.8	35 24	9.8	59 49
1.9	11 36	5.9	36 1	9.9	60 26
— 2.0	12 12	— 6.0	36 37		
2.1	12 49	6.1	37 14		
2.2	13 25	6.2	37 50		
2.3	14 2	6.3	38 27		
2.4	14 38	6.4	39 3		
2.5	15 15	6.5	39 40		
2.6	15 52	6.6	40 17		
2.7	16 28	6.7	40 53		
2.8	17 5	6.8	41 30		
2.9	17 42	6.9	42 7		
— 3.0	18 19	— 7.0	42 44		
3.1	18 56	7.1	43 21		
3.2	19 32	7.2	43 57		
3.3	20 9	7.3	44 34		
3.4	20 45	7.4	45 10		
3.5	21 22	7.5	45 47		
3.6	21 59	7.6	46 24		
3.7	22 35	7.7	47 0		
3.8	23 12	7.8	47 37		
3.9	23 49	7.9	48 14		

Tafel III.

Red. auf Mittl. Zt.	Stern-Zt.
s	m s
— 0.01	0 4
0.02	0 7
0.03	0 11
0.04	0 15
0.05	0 18
0.06	0 22
0.07	0 26
0.08	0 29
0.09	0 33
0.10	0 37

Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

Tag	h m s	Tag	h m s	Tag	h m s
0.01	0 14 24	0.36	8 38 24	0.71	17 2 24
0.02	0 28 48	0.37	8 52 48	0.72	17 16 48
0.03	0 43 12	0.38	9 7 12	0.73	17 31 12
0.04	0 57 36	0.39	9 21 36	0.74	17 45 36
0.05	1 12 0	0.40	9 36 0	0.75	18 0 0
0.06	1 26 24	0.41	9 50 24	0.76	18 14 24
0.07	1 40 48	0.42	10 4 48	0.77	18 28 48
0.08	1 55 12	0.43	10 19 12	0.78	18 43 12
0.09	2 9 36	0.44	10 33 36	0.79	18 57 36
0.10	2 24 0	0.45	10 48 0	0.80	19 12 0
0.11	2 38 24	0.46	11 2 24	0.81	19 26 24
0.12	2 52 48	0.47	11 16 48	0.82	19 40 48
0.13	3 7 12	0.48	11 31 12	0.83	19 55 12
0.14	3 21 36	0.49	11 45 36	0.84	20 9 36
0.15	3 36 0	0.50	12 0 0	0.85	20 24 0
0.16	3 50 24	0.51	12 14 24	0.86	20 38 24
0.17	4 4 48	0.52	12 28 48	0.87	20 52 48
0.18	4 19 12	0.53	12 43 12	0.88	21 7 12
0.19	4 33 36	0.54	12 57 36	0.89	21 21 36
0.20	4 48 0	0.55	13 12 0	0.90	21 36 0
0.21	5 2 24	0.56	13 26 24	0.91	21 50 24
0.22	5 16 48	0.57	13 40 48	0.92	22 4 48
0.23	5 31 12	0.58	13 55 12	0.93	22 19 12
0.24	5 45 36	0.59	14 9 36	0.94	22 33 36
0.25	6 0 0	0.60	14 24 0	0.95	22 48 0
0.26	6 14 24	0.61	14 38 24	0.96	23 2 24
0.27	6 28 48	0.62	14 52 48	0.97	23 16 48
0.28	6 43 12	0.63	15 7 12	0.98	23 31 12
0.29	6 57 36	0.64	15 21 36	0.99	23 45 36
0.30	7 12 0	0.65	15 36 0	1.00	24 0 0
0.31	7 26 24	0.66	15 50 24		
0.32	7 40 48	0.67	16 4 48		
0.33	7 55 12	0.68	16 19 12		
0.34	8 9 36	0.69	16 33 36		
0.35	8 24 0	0.70	16 48 0		

Zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt.

Tag	m s	Tag	m s	Tag	m s	Tag	s
0.0001	0 8.64	0.0036	5 11.04	0.0071	10 13.44	0.00001	0.864
02	0 17.28	37	5 19.68	72	10 22.08	2	1.728
03	0 25.92	38	5 28.32	73	10 30.72	3	2.592
04	0 34.56	39	5 36.96	74	10 39.36	4	3.456
05	0 43.20	40	5 45.60	75	10 48.00	5	4.320
06	0 51.84	41	5 54.24	76	10 56.64	6	5.184
07	1 0.48	42	6 2.88	77	11 5.28	7	6.048
08	1 9.12	43	6 11.52	78	11 13.92	8	6.912
09	1 17.76	44	6 20.16	79	11 22.56	9	7.776
10	1 26.40	45	6 28.80	80	11 31.20	10	8.640
11	1 35.04	46	6 37.44	81	11 39.84		
12	1 43.68	47	6 46.08	82	11 48.48		
13	1 52.32	48	6 54.72	83	11 57.12		
14	2 0.96	49	7 3.36	84	12 5.76		
15	2 9.60	50	7 12.00	85	12 14.40		
16	2 18.24	51	7 20.64	86	12 23.04	0.000001	0.086
17	2 26.88	52	7 29.28	87	12 31.68	2	0.173
18	2 35.52	53	7 37.92	88	12 40.32	3	0.259
19	2 44.16	54	7 46.56	89	12 48.96	4	0.346
20	2 52.80	55	7 55.20	90	12 57.60	5	0.432
21	3 1.44	56	8 3.84	91	13 6.24	6	0.518
22	3 10.08	57	8 12.48	92	13 14.88	7	0.605
23	3 18.72	58	8 21.12	93	13 23.52	8	0.691
24	3 27.36	59	8 29.76	94	13 32.16	9	0.778
25	3 36.00	60	8 38.40	95	13 40.80	10	0.864
26	3 44.64	61	8 47.04	96	13 49.44		
27	3 53.28	62	8 55.68	97	13 58.08		
28	4 1.92	63	9 4.32	98	14 6.72		
29	4 10.56	64	9 12.96	99	14 15.36		
30	4 19.20	65	9 21.60	100	14 24.00		
31	4 27.84	66	9 30.24				
32	4 36.48	67	9 38.88				
33	4 45.12	68	9 47.52				
34	4 53.76	69	9 56.16				
35	5 2.40	70	10 4.80				

Hülfsgröfsen zur Berechnung der Präzession nach Newcomb

von den Katalogepochen t_0 bis 1912.0.

$t = 1912.0.$

t_0	$m^s(t-t_0)$	$\log[n^s(t-t_0)]$	$\log[n''(t-t_0)]$
1755	+8ᵐ 2ˢ.162	2.321977	3.498068
1790	6 14.714	2.212405	3.388496
1800	5 44.009	2.175254	3.351345
1810	5 13.304	2.134627	3.310718
1825	4 27.242	2.065532	3.241623
1830	+4 11.887	2.039823	3.215914
1835	3 56.532	2.012495	3.188586
1836	3 53.461	2.006817	3.182908
1840	3 41.176	1.983331	3.159422
1842	3 35.034	1.971096	3.147187
1845	+3 25.820	1.952070	3.128161
1850	3 10.463	1.918382	3.094473
1855	2 55.106	1.881860	3.057951
1860	2 39.748	1.841984	3.018075
1864	2 27.461	1.80722	2.98331
1865	+2 24.390	1.79807	2.97416
1870	2 9.031	1.74922	2.92531
1872	2 2.887	1.72803	2.90412
1875	1 53.672	1.69417	2.87026
1880	1 38.312	1.63111	2.80720
1885	+1 22.952	1.55732	2.73341
1890	1 7.592	1.46838	2.64447
1895	0 52.231	1.35640	2.53249
1900	0 36.869	1.20512	2.38122
1910	0 6.145	0.42696	1.60306

m und n sind die Newcombschen Konstanten für die Epoche $\frac{1}{2}(t+t_0)$.

Ist α', δ' der genäherte Sternort für die Zeit $\frac{1}{2}(t+t_0)$,

so ist $$\alpha = \alpha_0 + [m^s(t-t_0)] + [n^s(t-t_0)] \sin\alpha' \operatorname{tg}\delta'$$
$$\delta = \delta_0 + [n''(t-t_0)] \cos\alpha'.$$

Hülfsgröfsen zur Übertragung mittlerer Polsternörter

von dem Äquinoktium t_0 auf 1912.0.

$t = 1912.0.$

t_0	ζ_0	z	Θ
1755	60' 15.31"	60' 17.26"	52' 28.08"
1790	46 49.80	46 50.98	40 46.15
1800	42 59.60	43 0.60	37 25.61
1810	39 9.38	39 10.21	34 5.07
1825	33 24.02	33 24.63	29 4.28
1830	31 28.89	31 29.43	27 24.02
1835	29 33.76	29 34.23	25 43.76
1840	27 38.62	27 39.03	24 3.50
1845	25 43.47	25 43.83	22 23.25
1850	23 48.32	23 48.63	20 42.99
1855	21 53.17	21 53.42	19 2.74
1860	19 58.00	19 58.22	17 22.49
1865	18 2.84	18 3.01	15 42.24
1870	16 7.66	16 7.80	14 1.99
1875	14 12.49	14 12.59	12 21.75
1880	12 17.30	12 17.38	10 41.51
1885	10 22.11	10 22.17	9 1.27
1890	8 26.92	8 26.96	7 21.03
1895	6 31.72	6 31.74	5 40.79
1900	4 36.52	4 36.53	4 0.55
1905	2 41.31	2 41.31	2 20.32
1910	0 46.09	0 46.09	0 40.09

Sind α_0, δ_0 die Koordinaten für t_0, α, δ jene für t, so hat man:

$$a_0 = \alpha_0 + \zeta_0$$

$$p = (\text{tang}\, \delta_0 + \cos a_0 \,\text{tang}\, \tfrac{1}{2}\Theta) \sin \Theta$$

$$\text{tang}\, \Delta a = \frac{p \sin a_0}{1 - p \cos a_0}$$

$$\alpha = a_0 + z + \Delta a$$

$$\text{tang}\, \tfrac{1}{2}(\delta - \delta_0) = \cos(a_0 + \tfrac{1}{2}\Delta a) \sec \tfrac{1}{2}\Delta a \,\text{tang}\, \tfrac{1}{2}\Theta$$

oder, fast immer ausreichend genau:

$$\delta = \delta_0 + \Theta \cos(a_0 + \tfrac{1}{2}\Delta a) \sec \tfrac{1}{2}\Delta a.$$

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia.	69	+43 22 52.2	+1 0 34.9	+ 9.95	+43 11 22.8	9.999322
Åbo	—	+60 26 56.8	−0 35 31.50	− 5.84	+60 17 3.1	9.998902
Adelaide	43	−34 55 38.5	−8 20 45.62	−82.26	−34 44 50.9	9.999529
Albany (N. Stw.)[1]	40	+42 39 12.6	+5 48 41.16	+57.28	+42 27 44.5	9.999339
Alfred Centre N.Y.	556	+42 15 19.8	+6 4 41.93	+59.91	+42 3 52.5	9.999384
Algier (N. Stw.)[2] .	342	+36 47 50	+0 41 26.42	+ 6.81	+36 36 48	9.999505
Allegheny (N. Stw.)	370	+40 28 58.1	+6 13 40.19	+61.39	+40 17 36.3	9.999416
Allegheny (A. Stw.)	349	+40 27 41.6	+6 13 37.77	+61.38	+40 16 20.0	9.999415
Altenburg[3] . .	229	+50 58 20	+0 3 50.64	+ 0.63	+50 47 4	9.999141
Altona Mer.-Kreis[4]	31	+53 32 45.3	+0 13 48.61	+ 2.27	+53 21 44.5	9.999065
Amherst (Neue Stw.)	110	+42 21 56.5	+5 43 40.78	+56.46	+42 10 29.0	9.999341
Amherst (Alte Stw.)	122	+42 22 17.1	+5 43 39.52	+56.46	+42 10 49.6	9.999351
Annapolis	—	+38 58 53.5	+5 59 31.33	+59.06	+38 47 38.5	9.999428
Ann Arbor . . .	285	+42 16 48.0	+6 28 30.03	+63.82	+42 5 20.7	9.999364
Arcetri Zentr. d. St.[5]	186	+43 45 14.4	+0 8 33.50	+ 1.41	+43 33 44.5	9.999321
Arequipa	2451	−16 22 28.0	+5 39 46.53	+55.82	−16 16 15.4	0.000053
Armagh	61	+54 21 12.7	+1 20 10.2	+13.17	+54 10 17.8	9.999047
Athen	—	+37 58 19.7	−0 41 18.12	− 6.78	+37 47 10.3	9.999453
Bamberg (Remeis' St.)	299	+49 53 6.0	+0 10 1.23	+ 1.65	+49 41 45.0	9.999174
Barcelona[6] . . .	—	+41 24 2	+0 44 59.7	+ 7.39	+41 12 37	9.999368
Beloit	—	+42 30 9	+6 49 42.2	+67.31	+42 18 41	9.999340
Bergen	—	+60 23 54	+0 32 22.07	+ 5.32	+60 14 0	9.998903
Berkeley	97	+37 52 23.6	+9 2 37.56	+89.14	+37 41 14.7	9.999462
Berlin Zentr. d. St.[7]	47	+52 30 16.7	0 0 0.00	0.00	+52 19 9.0	9.999091
Berlin (Urania) . .	—	+52 31 30.7	+0 0 7.40	+ 0.02	+52 20 23.2	9.999088
Bern	573	+46 57 8.7	+0 23 49.25	+ 3.91	+46 45 39.5	9.999266
Besançon	312	+47 14 59.0	+0 29 37.7	+ 4.87	+47 3 30.3	9.999241
Bethlehem[8] . .	—	+40 36 23.5	+5 55 6.74	+58.34	+40 25 1.3	9.999388
Birr Castle[9] . .	—	+53 5 47	+1 25 15.7	+14.00	+52 54 43	9.999073
Bogota	2700	+ 4 35 48	+5 50 34	+57.59	+ 4 33 58	0.000175
Bologna Zentr. d. Stw.	—	+44 29 52.8	+0 8 10.32	+ 1.34	+44 18 22.3	9.999289
Bombay (Colaba) .	19	+18 53 36.2	−3 57 40.90	−39.05	+18 46 34.1	9.999850
Bonn Zentr. d. Stw. .	62	+50 43 45.0	+0 25 11.62	+ 4.14	+50 32 27.7	9.999136
Bordeaux (Floirac)	73	+44 50 7.2	+0 55 40.30	+ 9.14	+44 38 36.6	9.999286
Boston (University)	—	+42 21 32.5	+5 37 49.8	+55.50	+42 10 5.0	9.999344
Bothkamp[10] . .	32	+54 12 9.6	+0 13 3.6	+ 2.15	+54 1 13.6	9.999048

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, 7s.10 östlich. — [2]) Alte Sternwarte 3′.8 südlich, 8s östlich. — [3]) Fr. Krüger. — [4]) 1873 nach Kiel verlegt. — [5]) Seit Oktober 1872, früher in Florenz. — [6]) J. Comas Solá. — [7]) Seit 1835. Alte Sternwarte 56′.4 nördlich, 0s.39 westlich. — [8]) Sayre Observatory, auch South-Bethlehem. — [9]) Earl of Rosse. — [10]) Herr von Bülow.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Bremen (Olbers' Stw.) .	—	+53 4 36	+0 18 20	+ 3.01	+52 53 32	9.999074
Breslau Zentr. d. Stw. .	147	+51 6 56.5	−0 14 33.92	− 2.39	+50 55 41.1	9.999132
Brisbane	—	−27 28 0	−9 18 31.6	−91.75	−27 18 36	9.999693
Brüssel (Alte St.) Pass.Instr.	56	+50 51 10.7	+0 36 6.09	+ 5.93	+50 39 54.0	9.999133
Brüssel (Uccle)	102	+50 47 55.5	+0 36 7.9	+ 5.94	+50 36 38.5	9.999137
Budapest[1])	—	+47 29 34.7	−0 22 40.5	− 3.73	+47 18 6.5	9.999213
Bukarest (Mil. Geogr. Inst.)	—	+44 24 34.2	−0 50 52.21	− 8.36	+44 13 3.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	+0 53 12.05	+ 8.74	+52 1 42.2	9.999097
Cambridge Mass.[2]) .	24	+42 22 47.6	+5 38 5.82	+55.54	+42 11 20.1	9.999345
Cap d. gut. Hoffnung	16	−33 56 3.2	−0 20 19.94	− 3.34	−33 45 24.3	9.999551
Catania	60	+37 30 13.3	−0 6 45.8	− 1.11	+37 19 6.7	9.999468
Chapultepec (Alte Stw.)[3])	—	+19 25 17.5	+7 30 13.08	+73.96	+19 18 5.5	9.999841
Charkow	138	+50 0 10.2	−1 31 19.8	−15.01	+49 48 49.7	9.999159
Charlottesville[4]) . .	250	+38 2 1.2	+6 7 40.06	+60.40	+37 50 51.4	9.999468
Chicago (Alte Stw.)[5]) .	—	+41 50 1.0	+6 44 1.62	+66.37	+41 38 34.8	9.999357
Christiania Mer.-Kreis .	25	+59 54 43.7	+0 10 41.29	+ 1.76	+59 44 43.5	9.998916
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+6 31 33.89	+64.32	+38 55 10.9	9.999425
Cincinnati (Neue Stw.)[6])	263	+39 8 19.8	+6 31 16.13	+64.27	+38 57 4.0	9.999442
Cleveland (Case Obs.) .	—	+41 30 14.5	+6 20 0.66	+62.43	+41 18 49.3	9.999365
Clinton (Litchfield Obs.)	276	+43 3 16.5	+5 55 12.28	+58.35	+42 51 47.6	9.999345
Coimbra	99	+40 12 25.8	+1 27 9.0	+14.32	+40 1 5.2	9.999405
Columbia Missouri[7]) .	225	+38 56 51.7	+7 2 53.17	+69.47	+38 45 36.9	9.999444
Cordoba	439	−31 25 15.5	+5 10 23.0	+50.99	−31 15 2.0	9.999638
Danzig	3	+54 21 18.0	−0 21 4.7	− 3.46	+54 10 23.1	9.999043
Denver[8])	1650	+39 40 36.4	+7 53 22.47	+77.76	+39 29 18.1	9.999523
Dorpat Mer.-Kreis . .	73	+58 22 47.1	−0 53 18.43	− 8.76	+58 12 29.5	9.998953
Dresden (Neue Stw.)[9]) .	121	+51 2 16.8	−0 1 19.94	− 0.22	+50 51 1.0	9.999132
Dresden (Mathem. Salon)	—	+51 3 14.7	−0 1 21.03	− 0.22	+50 51 59.0	9.999124
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+1 18 55.9	+12.97	+53 12 11.2	9.999072
Düsseldorf (Bilk) . . .	26	+51 12 25.0	+0 26 29.9	+ 4.35	+51 1 10.0	9.999122
Dunecht[10])	141	+57 9 36	+1 3 15	+10.39	+56 59 6	9.998986
Durham	—	+54 46 6.2	+0 59 54.5	+ 9.84	+54 35 14.6	9.999033
Edinburg	106	+55 57 23.2	+1 6 17.85	+10.89	+55 46 41.7	9.999012
Edinburg (Blackf. Hill) .	134	+55 55 28.0	+1 6 18.8	+10.89	+55 44 46.2	9.999014
Evanston (Dearborn Obs.)	—	+42 3 33.4	+6 44 17.1	+66.41	+41 52 6.6	9.999351
Flagstaff (Lowell Obs.) .	—	+35 12 30.5	+8 20 19.4	+82.19	+35 1 40.5	9.999520

[1]) Geod. Observ. des Polytechnikums. — [2]) Harvard College Observatory. — [3]) 1883 nach Tacubaya verlegt. [4]) Leander Mc. Cormick Obs. der University of Virginia. — [5]) 1887 geschlossen. — [6]) Mount Lookout, seit 1873. — [7]) Laws Observatory. — [8]) University Park, Chamberlin Observatory. — [9]) v. Engelhardt; Herbst 1897 aufgelöst. Alte Sternwarte 14″.2 nördlich, 1s.57 westlich. — [10]) Earl of Crawford.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Florenz (Alte Sternw.)[1] .	73	+43 46 4.1	+0 8 33.50	+ 1.40	+43 34 34.2	9.999313
Florenz (Mil. Geogr. Inst.)	—	+43 46 49.3	+0 8 32.28	+ 1.40	+43 35 19.4	9.999308
Genf Mer.-Kreis	407	+46 11 59.1	+0 28 58.19	+ 4.76	+46 0 29.0	9.999274
Genua (Mar. Stw.) Mer.-Kr.	—	+44 25 9.3	+0 17 53.52	+ 2.94	+44 13 38.8	9.999291
Georgetown D. C. . .	46	+38 54 26.2	+6 1 53.13	+59.45	+38 43 11.6	9.999433
Glasgow Schottl. . . .	—	+55 52 42.6	+1 10 45.35	+11.62	+55 42 0.4	9.999007
Glasgow Missouri . . .	228	+39 13 45.6	+7 4 52.86	+69.80	+39 2 29.4	9.999438
Göttingen Mer.-Kreis . .	161	+51 31 48.2	+0 13 48.58	+ 2.27	+51 20 34.6	9.999123
Gohlis[2]	108	+51 21 35.0	+0 4 5.26	+ 0.67	+51 10 20.8	9.999123
Gotha (Neue Stw.) Zentr. d. St.[3]	320	+50 56 37.5	+0 10 44.28	+ 1.76	+50 45 21.2	9.999149
Graz	375	+47 4 37.2	−0 8 13	− 1.35	+46 53 8.2	9.999250
Greenwich Transit Circle	47	+51 28 38.1	+0 53 34.80	+ 8.80	+51 17 24.5	9.999116
Grignon	—	+47 33 42	+0 35 57	+ 5.91	+47 22 14	9.999212
Hamburg (Alte Stw.) M.-Kr.	25	+53 33 5.2	+0 13 41.20	+ 2.25	+53 22 4.4	9.999064
Hamburg (Bergedorf) M.-Kr.	40	+53 28 46.0	+0 12 37.06	+ 2.07	+53 17 44.7	9.999067
Hamburg (D. Seewarte) .	30	+53 32 51.8	+0 13 41.38	+ 2.25	+53 21 51.0	9.999065
Hanover N. H.	—	+43 42 15.2	+5 42 42.80	+56.30	+43 30 45.4	9.999310
Harrow (Col. Tupmann) .	66	+51 34 47.4	+0 54 54.7	+ 9.19	+51 23 33.5	9.999115
Hastings on Huds.[4] .	—	+40 59 25	+5 49 4.5	+57.35	+40 48 1	9.999378
Haverford	—	+40 0 36.5	+5 54 47.59	+58.28	+39 49 16.7	9.999403
Heidelberg (Wolfs Stw.)	—	+49 24 35	+0 18 46.4	+ 3.08	+49 13 12	9.999165
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	+0 18 41.67	+ 3.07	+49 12 31.7	9.999204
St. Helena	210	−15 55 26	+1 16 27.0	+12.56	−15 49 23	9.999906
Helsingfors Mer.-Kreis .	38	+60 9 42.6	−0 46 14.30	− 7.60	+59 59 45.4	9.998912
Helwan	119	+29 51 33	−1 11 47	−11.79	+29 41 38	9.999650
Herény (von Gothard) . .	229	+47 15 47.4	−0 12 49.8	− 2.11	+47 4 18.7	9.999235
Hongkong	—	+22 18 13.2	−6 43 7.1	−66.22	+22 10 9.4	9.999792
Hudson	—	+41 14 42.6	+6 19 18.99	+62.31	+41 3 18.2	9.999372
Ipswich (Orwell Park)[5] .	—	+52 0 33	+0 48 39.0	+ 7.99	+51 49 22	9.999100
Jena (Univers.) Zentr. d. St.	156	+50 55 35.6	+0 7 14.58	+ 1.19	+50 44 19.2	9.999137
Jena (Winkler)	174	+50 56 15.7	+0 7 14.07	+ 1.19	+50 44 59.4	9.999139
Johannesburg	1806	−26 10 55.0	−0 58 43.20	− 9.65	−26 1 49.2	9.999842
Kairo	—	+30 4 38.2	−1 11 34.00	−11.76	+29 54 40.2	9.999638
Kalocsa[6]	110	+46 31 42	−0 22 19.4	− 3.67	+46 20 12	9.999245
Karlsruhe[7]	110	+49 0 29.6	+0 19 59.40	+ 3.28	+48 49 5.4	9.999183
Kasan (Univers.)	79	+55 47 24.3	−2 22 54.13	−23.48	+55 36 41.3	9.999014

[1]) 1872 nach Arcetri verlegt. — [2]) Hr. Winkler, August 1887 nach Jena verlegt. — [3]) Seit 1853, früher Seeberg. — [4]) Dr. Draper. — [5]) Col. Tomline. — [6]) Erzbischöfl. Haynaldsche Sternwarte. — [7]) 1896 nach Heidelberg verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kasan (Engelhardt) . . .	98	+55 50 20.0	−2 21 41.6	−23.28	+55 39 37.4	9.999014
Kew	10	+51 28 6	+0 54 49.9	+ 9.01	+51 16 52	9.999115
Kiel Neuer Mer.-Kreis . .	52	+54 20 27.6	+0 12 59.35	+ 2.13	+54 9 32.6	9.999047
Kiel Alter Mer.-Kreis . .	47	+54 20 28.5	+0 12 59.23	+ 2.13	+54 9 33.5	9.999047
Kiew Mer.-Kreis	179	+50 27 12.5	−1 8 25.77	−11.24	+50 15 53.9	9.999151
Kis Kartal[1])	—	+47 41 54.8	−0 24 36.8	− 4.04	+47 30 27.0	9.999208
Königsberg Reps M.-Kr.[2])	22	+54 42 50.6	−0 28 24.18	− 4.67	+54 31 58.6	9.999036
Kopenhagen (Neue Stw.)[3])	14	+55 41 12.6	+0 3 16.11	+ 0.54	+55 30 28.7	9.999012
Kopenhagen (Urania-St.)	10	+55 41 19.2	+0 3 25.69	+ 0.56	+55 30 35.2	9.999012
Krakau Mer.-Kreis . . .	221	+50 3 51.9	−0 26 15.48	− 4.31	+49 52 31.6	9.999164
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 2 56.78	− 0.48	+47 51 56.1	9.999225
Landstuhl (Fauth) . . .	385	+49 24 42.5	+0 23 18.45	+ 3.83	+49 13 19.7	9.999191
La Plata	—	−34 54 30	+4 45 11.9	+46.85	−34 43 43	9.999527
Leiden (Neue Stw.) Mer.-Kr.[4])	6	+52 9 20.2	+0 35 38.65	+ 5.86	+51 58 10.4	9.999097
Leipzig (Neue Stw.) Zentr.[5])	119	+51 20 5.9	+0 4 0.87	+ 0.66	+51 8 52.0	9.999125
Lemberg	338	+49 50 11	−0 42 29	− 6.98	+49 38 50	9.999177
Leyton[6])	—	+51 34 34.0	+0 53 35.7	+ 8.80	+51 23 21.0	9.999111
Lissabon (Neue Stw.) . .	94	+38 42 31.3	+1 30 19.58	+14.84	+38 31 17.7	9.999441
Lissabon (Mar. Stw.) . .	—	+38 42 17.6	+1 30 8.4	+14.81	+38 31 4.0	9.999435
Liverpool (Neue Stw.)[7])	61	+53 24 3.8	+1 5 52.0	+10.82	+53 13 2.0	9.999070
London[8])	—	+51 31 30	+0 54 11.9	+ 8.90	+51 20 17	9.999112
Lübeck (Navig.-Sch.) .	19	+53 51 31.1	+0 10 49.2	+ 1.78	+53 40 32.5	9.999056
Lund Zentr. d. Stw. . .	34	+55 41 52.0	+0 0 49.83	+ 0.14	+55 31 8.3	9.999013
Lussinpiccolo[9]) . . .	—	+44 32 11	−0 4 17.5	− 0.70	+44 20 40	9.999288
Lüttich Ougrée . . .	128	+50 37 6	+0 31 23	+ 5.15	+50 25 48	9.999144
Lyon	299	+45 41 40.8	+0 34 26.8	+ 5.66	+45 30 10.3	9.999279
Madison (Washburn Obs.)	293	+43 4 36.7	+6 51 12.70	+67.55	+42 53 7.8	9.999345
Madras	7	+13 4 8.1	−4 27 24.53	−43.93	+12 59 4.8	9.999926
Madrid Zentr. d. Stw. . .	655	+40 24 29.7	+1 8 19.89	+11.23	+40 13 8.3	9.999437
Mailand Gr. Turm . . .	120	+45 27 59.4	+0 16 48.91	+ 2.76	+45 16 30.1	9.999273
Manila	—	+14 35 25	−7 10 15	−70.68	+14 29 49	9.999909
Mannheim Zentr. d. Stw.	98	+49 29 11.0	+0 19 44.38	+ 3.24	+49 17 48.5	9.999170
Marburg	248	+50 48 46.9	+0 18 29.9	+ 3.04	+50 37 30.0	9.999147
Mare Island Calif. . .	18	+38 5 55.8	+9 2 40.39	+89.15	+37 54 45.6	9.999451
Markree (Col. Cooper) .	45	+54 10 31.7	+1 27 23.2	+14.36	+53 59 35.5	9.999050
Marseille (N. St.) M.-Kr.[10])	75	+43 18 19.1	+0 32 0.24	+ 5.26	+43 6 49.8	9.999325

[1]) Baron von Podmaniczky. — [2]) Nach 1898, vor 1898 0ˢ.01 westlich. — [3]) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0ˢ.03 westlich. — [4]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0ˢ.42 östlich. — [5]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4ˢ.00 westlich. — [6]) J. Gurney Barclay. — [7]) Alte Sternwarte 44″.0 nördlich, 17ˢ.1 östlich. — [8]) Regents Park, G. Bishop 1836—61. — [9]) Manora-Sternwarte. — [10]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6ˢ.2 westlich; 29ᵐ.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Melbourne	28	−37 49 53.1	−8 46 19.37	−86.46	−37 38 44.5	9.999458
Meudon	—	+48 48 18	+0 44 39.3	+ 7.34	+48 36 53	9.999180
Mexico	2277	+19 26 1.3	+7 30 1.51	+73.93	+19 18 49.0	9.999995
Middletown Conn. .	—	+41 33 16.0	+5 44 12.0	+56.54	+41 21 50.6	9.999364
Modena	63	+44 38 52.8	+0 9 52.0	+ 1.62	+44 27 22.2	9.999289
Moncalieri	—	+44 59 51	+0 22 46	+ 3.74	+44 48 20	9.999277
Montreal	20	+45 30 17.0	+5 47 53.45	+57.15	+45 18 46.4	9.999265
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+9 0 9.65	+88.74	+37 9 20.1	9.999556
Mt. Wilson Calif. . .	1731	+34 12 59.5	+8 45 49.13	+86.27	+34 2 18.0	9.999661
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−1 36 42.23	−15.89	+55 34 36.2	9.999019
Mundenheim[1]) . . .	—	+49 27 30	+0 19 51	+ 3.26	+49 16 7	9.999164
München West-Kuppel	529	+48 8 45.5	+0 7 8.78	+ 1.17	+47 57 18.8	9.999233
Nashville (Vanderbilt Obs.)	—	+36 8 58.2	+6 40 47.61	+65.84	+35 58 0.9	9.999497
Natal	79	−29 50 46.6	−1 10 26.38	−11.57	−29 40 51.3	9.999648
Neapel (Capo di M.) . .	164	+40 51 45.4	−0 3 26.8	− 0.57	+40 40 22.3	9.999392
Neuchâtel	488	+46 59 50.6	+0 25 45.05	+ 4.23	+46 48 21.5	9.999259
New Haven (Neue Stw.[2])	—	+41 19 22.3	+5 45 15.33	+56.72	+41 7 57.6	9.999369
New York (Rutherfurd)	—	+40 43 48.5	+5 49 31.46	+57.42	+40 32 25.8	9.999384
New York (Columb. C.)	—	+40 45 23.1	+5 49 28.53	+57.41	+40 34 0.3	9.999384
Nikolajew	55	+46 58 22.1	−1 14 18.96	−12.21	+46 46 51.4	9.999230
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	+0 24 22.65	+ 4.01	+43 31 47.0	9.999335
Northfield (Goodsell Obs.)	286	+44 27 41.6	+7 6 10.8	+70.01	+44 16 10.6	9.999310
Oakland Californ.[4]) .	11	+37 48 5	+9 2 41.1	+89.15	+37 36 57	9.999458
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−1 9 27.25	−11.41	+46 17 6.3	9.999243
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−1 9 27.39	−11.41	+46 17 6.1	9.999239
Ogden Utah	—	+41 13 8.6	+8 21 34.45	+82.40	+41 1 44.3	9.999372
O-Gyalla (Neue Stw.[5])	—	+47 52 27.3	−0 19 10.69	− 3.15	+47 40 59.9	9.999204
Olmütz[6])	—	+49 35 43	−0 15 33	− 2.55	+49 24 21	9.999160
Ottawa	84	+45 23 37.3	+5 56 26.73	+58.55	+45 12 6.7	9.999277
Oxford (Radcl. Obs.) . .	65	+51 45 35.4	+0 58 37.4	+ 9.63	+51 34 23.4	9.999111
Oxford (Univers.) . . .	64	+51 45 34.2	+0 58 35.2	+ 9.62	+51 34 22.2	9.999110
Oxford Mississippi .	—	+34 22 12.6	+6 51 41.9	+67.63	+34 11 29.7	9.999540
Padua Mauer-Quadr. . .	31	+45 24 1.0	+0 6 5.65	+ 1.00	+45 12 30.4	9.999268
Palermo	76	+38 6 44.0	+0 0 9.0	+ 0.02	+37 55 33.8	9.999454
Paramatta	—	−33 48 49.8	−9 10 25.4	−90.42	−33 38 12.0	9.999553
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	+0 44 13.86	+ 7.27	+48 38 46.4	9.999183

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Dr. von Konkoly. — [6]) Herr von Unkrechtsberg.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	+0 44 14.10	+ 7.27	+48 37 53.2	9.999180
Parma (Univ.-Stw.) Turm.	—	+44 48 4.7	+0 12 16.01	+ 2.41	+44 36 34.1	9.999282
Perth West.-Austr. . .	60	−31 57 9.6	−6 49 46.94	−67.32	−31 46 50.2	9.999600
Petersburg (Akademie)	20	+59 56 29.7	−1 7 38.55	−11.11	+59 46 29.9	9.998915
Petersburg (Univers.) .	4	+59 56 32.0	−1 7 36.5	−11.11	+59 46 32.2	9.998914
Philadelphia[1]) . . .	—	+39 57 7.5	+5 54 13.29	+58.19	+39 45 47.9	9.999404
Plonsk[2])	—	+52 37 40.0	−0 27 57.1	− 4.59	+52 26 33.1	9.999085
Pola	32	+44 51 48.6	−0 1 48.16	− 0.30	+44 40 18.0	9.999282
Portsmouth	—	+50 48 3	+0 57 59.6	+ 9.53	+50 36 46	9.999130
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	+0 1 18.94	+ 0.22	+52 11 47.6	9.999098
Potsdam (Geod. Inst.) Turm	97	+52 22 54.8	+0 1 18.68	+ 0.22	+52 11 46.5	9.999098
Poughkeepsie[3]) . . .	46	+41 41 18	+5 49 8.4	+57.36	+41 29 52	9.999363
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	−0 4 5.49	− 0.67	+49 53 55.8	9.999161
Prag (Safarik)	—	+50 4 24	−0 4 13	− 0.69	+49 53 4	9.999148
Princeton N. J. (N. Stw.)[4])	76	+40 20 55.8	+5 52 14.33	+57.86	+40 9 34.6	9.999399
Providence[5])	—	+41 49 46.4	+5 39 12.42	+55.72	+41 38 20.2	9.999357
Pulkowa Zentr. d. Stw.	75	+59 46 18.7	−1 7 43.78	−11.13	+59 36 16.9	9.998922
Quebec Canada . . .	—	+46 48 17.3	+5 38 24.2	+55.59	+46 36 47.9	9.999231
Quito	2846	− 0 14 0	+6 8 55	+60.60	− 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	−0 42 53.31	− 7.04	+56 46 35	9.998981
Rio de Janeiro . . .	63	−22 54 23.7	+3 46 16.32	+37.17	−22 46 9.7	9.999786
Rochester (Lewis Swift)	172	+43 9 16.8	+6 3 56.67	+59.78	+42 57 47.7	9.999335
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	+0 3 39.44	+ 0.61	+41 42 27.3	9.999359
Rom (Capitol) Mer.-Kr.	63	+41 53 33.5	+0 3 38.46	+ 0.60	+41 42 7.2	9.999359
Rom (Vatican) Mer.-Kr.	100	+41 54 16.8	+0 3 45.52	+ 0.62	+41 42 50.4	9.999362
Rousdon	157	+50 42 38	+1 5 33.7	+10.76	+50 31 21	9.999143
Rugby	—	+52 22 7	+0 58 36.8	+ 9.63	+52 10 59	9.999091
St. Louis Missouri . .	—	+38 38 3.6	+6 54 23.95	+68.08	+38 26 50.4	9.999437
San Fernando . . .	31	+36 27 40.4	+1 18 24.17	+12.88	+36 16 40.8	9.999492
San Francisco[6]) . .	—	+37 47 28.0	+9 3 17.61	+89.25	+37 36 19.7	9.999457
Santiago de Chile (N. St.)	519	−33 26 42.0	+5 36 21.2	+55.24	−33 16 7.6	9.999596
Santiago de Chile (A. St.)	619	−33 26 25.4	+5 36 11.7	+55.22	−33 15 51.0	9.999603
Scarborough	—	+54 16 30	+0 55 13.7	+ 9.07	+54 5 36	9.999045
Schwerin	—	+53 37 37.9	+0 7 54.00	+ 1.30	+53 26 37.7	9.999061
Seeberg[7])	356	+50 56 5.2	+0 10 39.70	+ 1.75	+50 44 48.9	9.999151
South Hadley . . .	—	+42 15 18.2	+5 43 55.18	+56.50	+42 3 50.9	9.999346

[1]) Flower Obs. (Univ. of Pennsylvania). — [2]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [3]) Vassar College. — [4]) Alte Sternwarte $2''.0$ nördlich, $1^s.94$ östlich; 65^m. — [5]) Seagrave; Ladd Observatory, $35''$ nördlich, $1^s.57$ östlich. — [6]) Davidson Observatory. — [7]) Alte Sternwarte, 1853 nach Gotha verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Speyer	—	+49 18 55.2	+ 0 19 49.29	+ 3.26	+49 7 32.0	9.999168
Stockholm Mer.Kreis .	44	+59 20 34.0	— 0 18 39.18	— 3.06	+59 10 27.2	9.998930
Stonyhurst.	—	+53 50 40.0	+ 1 3 27.5	+ 10.42	+53 39 41.3	9.999055
Straſsburg (Prov. Stw.) .	161	+48 34 54.0	+ 0 22 32.43	+ 3.70	+48 23 28.5	9.999197
Straſsburg (N.St.). M.-Kr.[1])	144	+48 35 0.2	+ 0 22 30.27	+ 3.70	+48 23 34.7	9.999196
Sydney.	44	—33 51 41.1	— 9 11 14.80	— 90.55	—33 41 2.8	9.999555
Tacubaya[2])	2322	+19 24 17.5	+ 7 30 21.33	+ 73.98	+19 17 5.8	9.999999
Taschkent	457	+41 19 31.3	— 3 43 35.89	— 36.73	+41 8 6.6	9.999400
Taunton Mass. (Metcalf).	8	+41 54	+ 5 37 55	+ 55.51	+41 43	9.999355
Teramo (Cerulli)	398	+42 39 27	— 0 1 21	— 0.22	+42 27 59	9.999363
Tokio	—	+35 39 17.5	— 8 25 23.2	— 83.02	+35 28 24.0	9.999509
Toronto	—	+43 39 35.9	+ 6 11 9.49	+ 60.97	+43 28 6.1	9.999311
Tortosa (Ebro-Stw.) M.-Kr.	—	+40 49 14	+ 0 51 36.3	+ 8.48	+40 37 51	9.999382
Toulouse	194	+43 36 45.3	+ 0 47 43.8	+ 7.84	+43 25 15.6	9.999325
Triest	23	+45 38 45.4	— 0 1 28.10	— 0.24	+45 27 14.9	9.999262
Troy N. Y.	—	+42 43 52.9	+ 5 48 19.4	+ 57.22	+42 32 24.6	9.999334
Tsingtau (Met.-astr. Stat.)	—	+36 4 11.3	— 7 7 41.41	— 70.26	+35 53 14.6	9.999499
Tulse Hill (W. Huggins) .	53	+51 26 47.0	+ 0 54 2.5	+ 8.88	+51 15 33.3	9.999118
Turin Mer.-Kr.	270	+45 4 7.9	+ 0 22 47.65	+ 3.74	+44 52 37.3	9.999293
Twickenham (G. Bishop)	—	+51 27 4.2	+ 0 54 47.9	+ 9.00	+51 15 50.5	9.999114
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 0 16 55.33	— 2.78	+59 41 28.6	9.998916
Urbana Jll.	—	+40 6 20.2	+ 6 46 28.77	+ 66.77	+39 55 0.0	9.999400
Utrecht	12	+52 5 9.5	+ 0 33 3.2	+ 5.43	+51 53 59.3	9.999099
Valkenburg (Ignatius Coll.)	—	+50 52 29.3	+ 0 30 14.89	+ 4.97	+50 41 12.7	9.999128
Venedig	—	+45 25 49.5	+ 0 4 10.0	+ 0.68	+45 14 18.9	9.999266
Warschau Zentr. d. Stw.	110	+52 13 5.7	— 0 30 32.45	— 5.02	+52 1 56.3	9.999102
Warschau[3])	—	+52 13 10	— 0 30 30	— 5.01	+52 2 1	9.999095
Washington (Alte Stw.)	31	+38 53 38.9	+ 6 1 46.93	+ 59.43	+38 42 24.3	9.999432
Washington (Neue Stw.)	—	+38 55 14.0	+ 6 1 50.60	+ 59.44	+38 44 0.1	9.999430
Washington (Kath. Univ.)	—	+38 56 14.8	+ 6 1 34.8	+ 59.40	+38 45 0.0	9.999429
Wellington (Mt. Cook Obs.)	44	—41 16 47.1	—10 45 30.51	—106.04	—41 5 22.6	9.999374
West Point N.Y. (N. Stw.)[4])	—	+41 23 22	+ 5 49 25.4	+ 57.40	+41 11 57	9.999368
Whitestone (Field Obs.)	—	+40 47 21.6	+ 5 48 42.5	+ 57.28	+40 35 58.6	9.999383
Wien (Alte Sternw.) . . .	167	+48 12 35.5	— 0 11 56.81	— 1.96	+48 1 8.9	9.999206
Wien (Josephstadt)[5]) . .	214	+48 12 53.8	— 0 11 50.37	— 1.94	+48 1 27.2	9.999210
Wien (Neue Sternw.) Zentr.	240	+48 13 55.4	— 0 11 46.56	— 1.93	+48 2 28.9	9.999211

[1]) Seit Anfang 1881. — [2]) Seit März 1883, früher in Chapultepec. — [3]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, 1s.2 östlich. — [5]) von Oppolzers Sternwarte.

Name	Seehöhe	Geogr. Breite	Länge von Berlin + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Wien (Ottakring)[1] . . .	285	+48 12 46.7	−0 11 36.17	− 1.91	+48 1 20.1	9.999215
Wien (Mil. Geogr. Inst.) . .	—	+48 12 40.0	−0 11 51.45	− 1.95	+48 1 13.4	9.999195
Wien (Techn. Hochschule)	—	+48 11 58.5	−0 11 54.91	− 1.96	+48 0 31.9	9.999196
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	+0 20 59.74	+ 3.45	+53 20 51.2	9.999064
Williams-Bay Wisc.[2]	—	+42 34 12.6	+6 47 48.08	+66.99	+42 22 44.7	9.999338
Williamstown Mass. .	—	+42 42 49	+5 46 28.3	+56.92	+42 31 21	9.999335
Williamstown Vict. .	—	−37 52 7.2	−8 46 3.3	−86.42	−37 40 58.4	9.999455
Wilna Pass.-Instr. . . .	122	+54 40 59.1	−0 47 33.96	− 7.81	+54 30 6.8	9.999043
Windsor N. S. W.[3] .	16	−33 36 30.8	−9 9 45.97	−90.31	−33 25 54.9	9.999559
Zô-sè China	100	+31 5 48	−7 11 10.0	−70.83	+30 55 38	9.999622
Zürich	470	+47 22 40.0	+0 19 22.5	+ 3.18	+47 11 11.5	9.999248

[1]) v. Kuffner. — [2]) Yerkes Observatory. — [3]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.





Bahnelemente, Oppositionsangaben und Oppositions-Ephemeriden

der

kleinen Planeten

für

1910.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
1 Ceres	Okt. 14	7.7	7.4	4.0	1910 Okt. 20.0	d. Ep.	235° 36′ 22.8″	68° 15′ 57.8″
2 Pallas	Aug. 20	9.0	8.0	4.5	1910 Aug. 17.0	d. Ep.	219 43 41.4	309 1 35.2
3 Juno	—	—	8.7	5.5	1909 Dez. 4.0	d. Ep.	8 18 12.7	244 28 44.3
4 Vesta	Okt. 31	6.9	6.5	4.0	1857 Jan. 1.0*)	d. Ep.	198 20 2.8	147 10 40.2
5 Astraea	Aug. 6	10.9	9.9	6.9	1898 Sept. 11.0	1910.0	224 4 1.2	353 28 9.3
6 Hebe	Febr. 26	9.2	8.5	5.8	1900 Juli 3.0	1910.0	284 20 20.1	236 56 30.6
7 Iris	Sept. 28	7.0	8.4	5.8	1900 Jan. 0.0*)	1900.0	9 5 20.1	141 31 26.9
8 Flora	—	—	8.9	6.8	1848 Jan. 1.0*)	d. Ep.	35 52 49.3	282 38 15.6
9 Metis	Febr. 12	8.6	8.9	6.3	1858 Juni 30.0	d. Ep.	57 4 34.7	2 32 16.9
10 Hygiea	Febr. 26	9.3	9.5	5.4	1898 Dez. 20.0	1910.0	291 20 17.9	308 57 0.0
11 Parthenope	—	—	9.3	6.5	1901 Okt. 26.0	1910.0	65 58 42.7	193 25 55.1
12 Victoria	April 15	9.5	9.7	7.2	1851 Jan. 0.0*)	d. Ep.	66 2 39.9	66 4 43.3
13 Egeria	März 31	9.5	9.7	6.7	1850 Jan. 0.0*)	d. Ep.	210 46 34.3	76 58 23.7
14 Irene	Aug. 13	10.3	9.7	6.6	1898 Okt. 1.0	1910.0	180 47 34.9	92 3 45.6
15 Eunomia	März 23	9.5	8.6	5.4	1854 Jan. 0.0*)	d. Ep.	122 5 31.5	93 59 46.0
16 Psyche	Nov. 29	9.1	9.6	5.9	1899 Juli 27.0	1910.0	301 1 33.0	226 3 57.4
17 Thetis	Febr. 12	10.4	10.1	7.3	1910 Febr. 21.0	1910.0	254 56 36.6	137 59 12.5
18 Melpomene	März 6	10.2	9.3	6.9	1854 Jan. 0.0*)	d. Ep.	80 4 37.0	225 1 41.3
19 Fortuna	—	—	9.8	7.1	1909 Juli 16.0	1910.0	283 29 19.9	179 50 56.7
20 Massalia	März 3	8.7	9.2	6.5	1899 März 29.0	1910.0	76 24 22.5	253 47 7.4
21 Lutetia	—	—	10.1	7.4	1853 Jan. 2.0*)	1852.0	74 20 5.1	246 36 10.2
22 Kalliope	Juni 30	10.2	9.8	6.1	1898 Okt. 1.0	1910.0	96 34 37.0	351 57 0.4
23 Thalia	Juli 3	11.5	10.5	7.3	1900 Jan. 3.0	1910.0	337 2 2.1	56 0 12.2
24 Themis	Juli 11	11.4	10.8	6.7	1905 Juni 27.0	1900.0	170 16 40.3	105 42 2.7
25 Phocaea	Dez. 19	11.6	10.5	7.9	1898 Aug. 2.0	1910.0	7 21 33.6	88 49 22.7
26 Proserpina	Aug. 3	10.3	10.5	7.3	1910 Aug. 20.0	1910.0	68 20 52.2	190 15 14.5
27 Euterpe	Aug. 21	9.5	9.7	7.2	1873 Jan. 5.0*)	1870.0	90 32 27.0	354 8 6.0
28 Bellona	Mai 8	10.1	10.1	6.6	1910 April 22.0	1910.0	78 25 23.9	340 38 24.5
29 Amphitrite	—	—	9.0	6.1	1855 Jan. 0.0*)	1870.0	198 1 40.2	59 42 14.8
30 Urania	—	—	9.9	7.4	1890 Juni 5.0	1910.0	239 51 48.5	83 41 38.7
31 Euphrosyne	Okt. 23	10.2	11.0	6.8	1899 Okt. 15.0	1910.0	327 7 12.3	60 23 44.4
32 Pomona	Febr. 1	10.3	10.6	7.5	1855 Jan. 5.0*)	d. Ep.	223 54 39.3	332 38 53.4
33 Polyhymnia	Febr. 28	13.4	11.8	8.2	1900 Jan. 0.0	1910.0	137 40 57.3	334 11 19.2
34 Circe	Nov. 8	11.6	11.5	8.2	1897 Dez. 5.0	1910.0	288 24 37.6	326 54 50.4
35 Leukothea	Dez. 5	12.8	12.2	8.3	1910 Dez. 18.0	1910.0	252 34 19.4	209 54 45.6
36 Atalante	Nov. 17	10.1	12.0	8.6	1899 Mai 8.0	1910.0	179 27 12.1	44 26 46.7
37 Fides	Juli 1	11.1	10.4	7.2	1910 Juni 21.0	1910.0	220 33 32.8	59 47 10.3
38 Leda	—	—	11.4	8.0	1897 Febr. 8.0	1910.0	31 52 32.7	166 10 19.4
39 Laetitia	—	—	9.5	6.0	1897 Jan. 19.0	1910.0	111 43 50.9	205 28 15.6
40 Harmonia	Jan. 13	9.3	9.2	6.9	1863 Jan. 0.0*)	d. Ep.	186 48 19.4	267 19 12.8

*) Mittlere Elemente.

☊	*i*	φ	μ	Log. *a*	Autorität
80° 43′ 47.5″	10° 36′ 51.2″	4° 24′ 55.5″	770.5022″	0.4421551	Godward.
172 55 8.7	34 42 24.3	13 48 34.0	769.1263	0.4426726	Farley.
170 49 17.2	13 1 24.2	14 53 49.0	813.7875	0.4263304	Hind.
103 23 20.1	7 8 6.2	5 6 4.4	977.63246	0.3732206	Leveau.
141 39 24.5	5 20 3.2	11 1 8.5	858.1895	0.4109489	Farley.
138 47 54.7	14 47 59.3	11 35 3.1	939.1860	0.3848366	R. Luther.
260 33 44.3	5 28 1.2	13 20 50.2	962.5828	0.3777123	Riem.
110 17 16.7	5 53 7.3	9 0 54.4	1086.3382	0.3426943	Downing.
68 31 35.2	5 36 0.3	7 5 2.4	962.3390	0.3777857	Lesser.
285 58 13.6	3 48 51.6	6 53 27.8	639.1669	0.4962615	E. Becker.
125 23 31.9	4 37 51.4	5 44 1.0	923.9058	0.3895859	R. Luther.
235 34 41.7	8 23 17.7	12 38 44.9	994.8347	0.3681705	Brünnow.
43 11 34.5	16 32 24.6	4 59 47.3	857.9451	0.4110315	Hansen.
87 5 6.2	9 7 32.0	9 20 51.3	851.4287	0.4132389	Maywald.
293 52 14.5	11 44 17.4	10 47 32.2	825.4550	0.4222087	Schubert.
150 39 24.8	3 4 25.9	7 50 18.3	710.5554	0.4656058	Schubert.
125 10 59.8	5 36 36.7	7 42 14.2	913.46549	0.3928764	Maywald.
150 3 49.7	10 9 16.9	12 34 20.2	1020.1198	0.3609036	Schubert.
211 14 22.9	1 32 58.9	9 7 45.4	929.85094	0.3877289	Berberich.
206 49 40.3	0 41 7.9	8 17 46.2	949.0005	0.3818268	Küstner.
80 27 48.5	3 5 9.5	9 19 44.6	933.5544	0.3865780	Lesser.
66 41 31.2	13 43 38.1	5 38 34.5	714.4288	0.4640317	Berberich.
67 58 18.4	10 13 3.3	13 32 59.4	833.5369	0.4193879	Schubert.
35 37 12.3	0 48 2.2	7 49 43.5	641.70063	0.4951161	Krueger.
214 22 20.9	21 36 40.9	14 39 21.4	954.0992	0.3802754	Berberich.
45 53 52.6	3 35 3.0	4 55 46.8	819.72055	0.4242272	P. Neugebauer.
93 51 20.1	1 35 30.4	10 0 56.0	986.6944	0.3705493	Hoppe.
144 40 13.0	9 23 1.3	8 45 7.1	766.65202	0.4436056	v. d. Groeben.
356 40 46.5	6 7 4.6	4 15 25.3	869.0352	0.4073128	E. Becker.
308 25 1.9	2 6 2.7	7 21 5.1	975.3144	0.3739080	Günther.
31 53 23.2	26 28 7.0	12 52 34.7	635.0803	0.4981187	Schubert.
220 42 55.2	5 28 49.9	4 45 43.1	852.5880	0.4128449	Lesser.
9 15 35.3	1 55 20.3	19 41 13.8	731.7057	0.4571134	Newcomb.
184 58 12.9	5 27 21.7	6 4 35.9	805.6011	0.4292575	Auwers.
355 9 38.6	8 4 42.7	12 49 14.4	683.93668	0.4766605	Tietjen.
359 15 7.6	18 39 44.0	17 26 19.0	777.3458	0.4395950	Schubert.
7 56 14.9	3 6 14.8	10 10 31.4	826.75744	0.4217524	R. Luther.
296 37 59.5	6 57 55.1	8 53 45.4	781.8518	0.4379215	Berberich.
157 33 8.6	10 22 6.9	6 23 16.8	769.6407	0.4424791	Tietjen.
93 34 54.2	4 15 48.4	2 40 13.6	1039.3353	0.3555006	Schubert.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
41 Daphne . .	—	—	10.5	7.0	1897 Okt. 6.0	1910.0	338° 8′ 41.4″	41° 50′ 23.8″
42 Isis	Okt. 18	9.6	10.4	7.7	1910 Sept. 29.0	1910.0	38 28 10.7	234 56 28.5
43 Ariadne . .	Sept. 28	9.8	10.0	7.9	1897 Okt. 6.0	1910.0	80 15 48.4	13 58 23.0
44 Nysa	Juni 9	10.4	9.8	7.1	1891 April 1.0	1910.0	101 29 32.1	340 33 5.3
45 Eugenia . .	Febr. 16	10.5	10.7	7.3	1890 Nov. 12.0	1910.0	180 7 31.7	82 43 5.7
46 Hestia . . .	Dez. 19	10.5	10.6	7.7	1910 Nov. 28.0	1910.0	68 8 1.2	173 7 5.8
47 Aglaja . . .	Juni 11	10.7	11.2	7.5	1910 Mai 12.0	1910.0	309 49 40.8	311 59 35.8
48 Doris	April 13	11.0	10.9	6.8	1890 Sept. 13.0	1910.0	277 3 7.4	251 36 27.2
49 Pales	Mai 17	12.0	11.0	7.0	1898 März 15.0	1910.0	133 1 8.6	104 17 27.1
50 Virginia . .	—	—	11.7	8.5	1890 April 6.0	1910.0	193 9 42.2	196 47 34.7
51 Nemausa . .	Aug. 17	10.2	9.8	7.3	1889 Nov. 17.0	1910.0	254 26 43.1	358 30 22.4
52 Europa . . .	Okt. 4	10.3	10.3	6.2	1891 April 1.0	1910.0	65 39 33.0	335 59 4.0
53 Kalypso . .	Juni 29	12.6	11.5	8.4	1910 Juli 11.0	1910.0	186 27 48.0	310 45 38.0
54 Alexandra .	Febr. 7	11.8	10.9	7.6	1884 Aug. 15.0	1910.0	316 55 13.5	341 53 36.7
55 Pandora . .	—	—	10.8	7.4	1885 Jan. 22.0	1910.0	263 33 12.6	0 46 56.4
56 Melete . . .	Febr. 8	12.3	11.3	8.2	1900 Dez. 30.0	1910.0	157 16 2.5	101 6 0.1
57 Mnemosyne	Dez. 4	10.1	10.7	6.5	1910 Dez. 18.0	1910.0	21 26 32.5	207 19 49.8
58 Concordia .	Aug. 4	11.7	11.6	8.3	1865 Jan. 7.0*)	d. E.	21 24 4.2	27 50 14.7
59 Elpis	—	—	10.9	7.6	1865 Jan. 7.0	1910.0	334 18 57.1	207 58 24.0
60 Echo	Febr. 16	10.2	11.1	8.5	1897 Okt. 6.0	1910.0	272 15 22.3	267 57 40.8
61 Danaë . . .	März 26	11.7	11.0	7.1	1900 April 14.0	1910.0	244 20 50.4	8 27 28.4
62 Erato	Okt. 30	11.3	12.3	8.2	1877 Sept. 21.0	1910.0	358 43 44.3	273 18 12.0
63 Ausonia . .	Juli 22	9.1	9.9	7.3	1898 Febr. 3.0	1910.0	250 44 8.5	292 55 12.7
64 Angelina . .	Juni 2	10.8	10.5	7.2	1898 Okt. 1.0	1910.0	239 38 51.2	173 35 10.2
65 Cybele . . .	—	—	11.0	6.4	1909 Dez. 23.0	1910.0	181 16 46.7	95 55 15.9
66 Maja	Aug. 13	12.0	12.2	9.0	1897 Juli 18.0	1910.0	277 24 16.1	40 10 30.9
67 Asia	Mai 23	10.5	11.2	8.5	1897 Dez. 5.0	1910.0	201 20 50.1	103 20 15.8
68 Leto	—	—	10.5	7.0	1909 Dez. 3.0	1910.0	57 44 59.8	301 23 56.8
69 Hesperia . .	Sept. 18	10.9	10.7	6.8	1889 Jan. 1.0	1910.0	182 52 57.9	284 43 32.6
70 Panopaea .	—	—	10.9	7.8	1890 Dez. 22.0	1910.0	305 21 16.5	252 49 41.9
71 Niobe . . .	Febr. 19	10.2	10.7	7.3	1910 Febr. 21.0	1910.0	311 8 21.6	265 15 15.3
72 Feronia . .	Nov. 10	11.2	11.2	8.9	1897 Dez. 25.0	1910.0	166 4 16.3	100 27 8.7
73 Klytia . . .	April 5	12.2	12.0	8.8	1898 Aug. 2.0	1910.0	244 29 53.1	52 42 38.5
74 Galatea . .	—	—	11.8	8.3	1897 Febr. 28.0	1910.0	148 4 45.2	170 59 36.6
75 Eurydike . .	Okt. 5	9.7	11.6	8.4	1897 Okt. 26.0	1910.0	32 23 13.9	335 34 7.7
76 Freia	Juni 4	12.7	12.0	7.4	1910 Juni 1.0	1910.0	159 18 28.1	235 31 8.0
77 Frigga . . .	Okt. 6	10.5	11.1	7.9	1897 Okt. 6.0	1910.0	331 13 52.7	56 51 43.2
78 Diana . . .	Mai 3	10.7	10.6	7.5	1907 Aug. 16.0	1910.0	206 4 36.9	149 44 7.9
79 Eurynome .	—	—	10.5	7.8	1909 Okt. 24.0	1910.0	355 23 9.4	198 33 28.9
80 Sappho . . .	Nov. 13	9.6	10.6	8.2	1896 Okt. 11.0	1910.0	19 11 20.2	136 54 7.7

Ω	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
179 2 48.7	15 55 33.5	15 26 36.4	770.4586	0.4421715	Berberich.
84 18 9.5	8 33 1.0	12 48 4.4	929.11108	0.3879594	L. Becker.
264 53 57.0	3 27 42.6	9 38 32.6	1084.7577	0.3431159	Prey.
131 22 43.4	3 42 0.7	8 48 10.9	941.7363	0.3840515	Powalky.
148 15 53.9	6 35 18.5	4 44 11.6	791.0695	0.4345280	Richter.
181 21 7.7	2 17 38.7	9 38 0.9	884.45090	0.4022219	Karlinski.
3 53 52.7	5 0 32.8	7 26 54.5	725.65957	0.4595153	P. Neugebauer.
184 50 59.0	6 30 23.4	3 30 16.7	645.5014	0.4934063	Powalky.
289 50 20.8	3 8 28.3	12 52 28.4	648.4530	0.4920854	Powalky.
173 55 41.5	2 48 27.0	16 45 58.0	823.5561	0.4228757	Powalky.
176 1 8.9	9 57 11.5	3 51 23.3	975.1593	0.3739540	Berberich.
129 57 19.4	7 26 14.9	6 31 44.8	651.8134	0.4905889	Murmann.
143 53 56.6	5 8 10.8	11 49 42.5	837.95367	0.4178577	Tietjen.
314 2 22.8	11 47 37.5	11 31 49.2	795.5362	0.4328978	Schultz.
11 13 41.5	7 13 26.0	8 18 56.3	774.4612	0.4406713	A. Moeller.
194 10 59.0	8 3 9.4	13 24 5.5	846.1114	0.4150527	R. Luther.
200 4 24.1	15 11 48.8	6 40 10.3	634.42086	0.4984194	Adolph.
161 19 50.3	5 1 50.5	2 26 21.8	799.5964	0.4314238	Oppolzer.
170 58 0.1	8 36 53.1	6 44 2.7	793.9788	0.4334651	Oppolzer.
192 2 8.5	3 35 2.2	10 34 22.7	958.2244	0.3790263	C. H. F. Peters.
334 23 28.2	18 15 3.1	9 29 23.8	688.3554	0.4747959	R. Luther.
126 6 30.1	2 12 15.4	10 6 47.4	642.5659	0.4947260	Oppolzer.
338 6 39.1	5 47 15.9	7 17 58.7	957.1671	0.3793459	Tietjen.
311 1 40.8	1 19 37.6	7 17 59.7	807.9036	0.4284314	Oppolzer.
158 50 52.9	3 28 52.3	5 45 43.0	557.40783	0.5358890	Fritsche.
8 25 31.5	3 5 3.2	10 3 43.4	824.3940	0.422582	Maywald.
203 4 10.5	5 59 10.5	10 47 54.5	942.3560	0.3838611	Frischauf.
44 46 7.6	7 58 30.2	10 46 18.5	765.06274	0.4442064	Th. Wolff.
186 49 25.9	8 29 47.6	9 39 2.0	689.6731	0.4742422	Kowalczyk.
48 23 54.9	11 38 23.5	10 22 15.9	838.9960	0.4174978	Richter.
316 25 26.6	23 16 54.1	10 11 5.9	776.31211	0.4399950	P. Neugebauer.
208 2 57.2	5 23 52.3	6 56 42.6	1040.3544	0.3552169	C. H. F. Peters.
7 43 24.2	2 24 17.7	2 34 3.9	816.0117	0.4255401	Powalky.
197 53 4.9	4 0 22.1	13 43 0.6	764.6230	0.4443728	Maywald.
0 6 45.0	4 59 55.9	17 45 42.2	812.4299	0.4268137	Stockwell.
212 3 47.1	2 3 7.4	9 57 51.3	564.46272	0.5322475	Murmann.
2 12 17.7	2 27 34.5	7 38 43.5	813.8298	0.4263153	Plath.
333 52 20.2	8 40 20.6	11 51 36.2	835.7718	0.4186116	v. Dubjago.
206 38 56.0	4 35 54.5	11 0 38.4	928.22578	0.3882353	Lachmann.
218 49 35.1	8 37 17.6	11 34 29.9	1020.1089	0.3609067	P. V. Neugebauer.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
81 Terpsichore	April 4	12.6	11.8	8.2	1897 Juli 18.0	1910.0	260 37 9.1	46 14 50.5
82 Alkmene . .	Dez. 4	10.4	11.2	7.8	1910 Nov. 28.0	1910.0	318 1 32.9	106 43 5.1
83 Beatrix . . .	Jan. 28	11.1	11.3	8.6	1891 Jan. 11.0	1910.0	295 16 6.4	163 24 40.4
84 Klio	—	—	11.3	8.8	1909 Dez. 3.0	1910.0	61 50 37.7	12 46 28.4
85 Io	—	—	10.9	7.7	1889 Febr. 10.0	1910.0	180 9 35.1	120 16 17.9
86 Semele . . .	—	—	12.4	8.3	1896 Mai 4.0	1910.0	203 38 25.9	300 25 58.4
87 Sylvia . . .	Febr. 27	12.4	11.9	7.2	1898 April 24.0	1910.0	236 42 47.7	265 34 33.5
88 Thisbe . . .	Jan. 10	11.6	10.8	7.4	1889 Dez. 27.0	1910.0	24 33 30.8	30 50 45.1
89 Julia	April 16	10.8	10.1	7.1	1889 Dez. 27.0	1910.0	237 15 2.3	42 50 18.7
90 Antiope . .	Juni 30	10.8	11.6	7.5	1910 Juli 11.0	1910.0	340 1 11.0	236 42 35.8
91 Aegina . . .	April 16	11.6	10.8	7.7	1897 Febr. 8.0	1910.0	54 32 6.9	71 55 32.8
92 Undina . . .	Jan. 26	11.4	10.9	6.7	1904 Febr. 13.0	1910.0	142 28 50.2	220 34 12.4
93 Minerva . .	—	—	10.8	7.4	1897 Jan. 19.0	1910.0	213 22 8.2	270 52 4.5
94 Aurora . . .	Mai 1	11.7	11.3	7.1	1883 Juli 12.0	1910.0	256 3 4.3	45 22 37.9
95 Arethusa . .	Nov. 21	10.5	11.3	7.3	1910 Nov. 28.0	1910.0	20 31 41.1	148 28 54.5
96 Aegle . . .	—	—	11.4	7.4	1897 Sept. 16.0	1910.0	182 59 36.0	200 34 30.1
97 Klotho . . .	Dez. 9	9.0	10.6	7.4	1898 Jan. 14.0	1910.0	21 4 31.9	264 36 8.8
98 Ianthe . . .	Okt. 18	12.0	12.7	9.4	1894 Jan. 15.0	1910.0	331 2 34.3	154 49 36.4
99 Dike	—	—	14	10.5	1868 Juni 5.0	1910.0	350 36 11	198 52 56
100 Hekate . . .	März 15	12.3	11.9	7.8	1898 Jan. 14.0	1910.0	156 19 38.0	176 49 53.2
101 Helena . . .	Nov. 20	10.6	10.7	7.6	1897 Aug. 27.0	1910.0	8 56 38.1	343 58 24.2
102 Miriam . . .	April 5	13.8	12.6	9.4	1898 Juli 13.0	1910.0	319 11 42.8	143 38 29.9
103 Hera	Jan. 7	10.6	10.2	6.9	1897 Febr. 8.0	1910.0	173 11 18.9	185 58 53.7
104 Klymene . .	März 21	12.4	12.2	8.0	1897 Dez. 25.0	1910.0	35 9 54.6	20 0 49.1
105 Artemis . .	—	—	11.1	8.5	1897 Aug. 27.0	1910.0	69 55 41.8	54 43 26.1
106 Dione . . .	Febr. 23	11.8	11.3	7.2	1910 Febr. 21.0	1910.0	108 23 21.0	324 54 49.2
107 Camilla . . .	März 19	11.0	11.2	6.5	1891 April 21.0	1910.0	97 7 57.4	293 57 59.6
108 Hecuba . . .	Juni 5	11.6	11.7	7.4	1910 Juni 1.0	1910.0	77 9 32.3	172 29 24.5
109 Felicitas . .	—	—	12.0	8.7	1898 Jan. 14.0	1910.0	115 33 32.5	52 23 6.6
110 Lydia . . .	Jan. 29	10.9	10.5	7.1	1901 Febr. 13.0	1910.0	150 32 10.1	281 13 26.2
111 Ate	Febr. 4	10.7	11.3	8.2	1890 Jan. 16.0	1910.0	91 26 4.4	163 34 48.8
112 Iphigenia .	Febr. 10	12.2	11.5	8.8	1897 Dez. 25.0	1910.0	88 12 11.4	14 7 51.7
113 Amalthea .	—	—	11.0	8.4	1910 Dez. 28.0	1910.0	290 17 46.6	76 39 11.9
114 Kassandra .	Juli 10	11.5	11.1	7.8	1889 Sept. 18.0	1910.0	211 30 3.4	348 48 30.0
115 Thyra . . .	März 17	11.1	10.4	7.8	1897 Okt. 6.0	1910.0	340 57 26.1	94 2 38.0
116 Sirona . . .	Jan. 11	10.1	10.7	7.3	1889 Juni 10.0	1910.0	158 3 13.7	89 6 38.1
117 Lomia . . .	Febr. 25	11.5	11.4	7.5	1897 Okt. 6.0	1910.0	332 35 55.4	48 38 20.1
118 Peitho . . .	März 14	10.7	10.8	8.1	1910 März 13.0	1910.0	72 9 25.5	31 12 43.9
119 Althaea . .	Juni 21	10.6	10.6	7.5	1898 Aug. 2.0	1910.0	314 33 34.0	168 34 50.1
120 Lachesis . .	Febr. 5	11.7	11.7	7.6	1897 Nov. 15.0	1910.0	202 19 20.3	238 31 10.8

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
2 34 20.8	7 55 5.5	12 11 52.3	736.4126	0.4552569	Maywald.
26 34 35.4	2 51 1.9	12 44 1.4	772.27663	0.4414891	W. Luther.
27 47 22.4	4 59 49.4	4 51 24.3	935.9122	0.3858476	E. Becker.
327 32 45.5	9 22 2.8	13 44 27.0	977.82672	0.3731631	P. Neugebauer.
203 55 21.1	11 53 47.5	11 10 33.7	821.0524	0.4237571	v. d. Groeben.
88 2 1.0	4 47 35.9	12 46 53.6	650.4530	0.4911939	Riem.
75 15 57.6	10 53 1.7	5 26 44.5	545.3288	0.5422321	v. d. Groeben.
277 51 59.5	5 14 54.8	9 26 6.4	771.1774	0.4419015	Kowalczyk.
312 0 55.5	16 12 32.0	10 33 29.3	871.5645	0.4064714	Th. Wolff.
70 49 30.0	2 15 28.0	8 45 47.0	632.91537	0.4991073	Maywald.
11 4 13.0	2 8 25.1	6 7 10.0	850.8763	0.4134268	Heuer.
102 50 42.0	9 56 23.7	5 22 41.6	622.67957	0.5038280	Anderson.
5 4 31.2	8 35 28.0	8 1 55.7	775.6316	0.4402341	P. Lehmann.
4 33 17.4	8 4 18.6	4 44 18.3	630.6584	0.5001416	Leppig.
244 5 29.9	12 55 44.5	8 53 6.5	661.08804	0.4864982	Schur.
322 47 10.3	16 2 24.5	7 39 35.3	663.1502	0.4855965	Schulhof.
160 57 9.4	11 45 29.3	14 51 9.7	813.5778	0.4264050	Maywald.
354 27 5.1	15 33 47.6	10 49 11.3	805.3086	0.4293629	Riem.
42 17 51	13 53 30	13 47 30	758.662	0.44664	Loewy u. Tisserand.
128 26 39.4	6 23 7.5	9 31 58.5	653.5823	0.4898043	Stark.
343 42 52.6	10 10 32.8	8 1 10.2	854.8620	0.4120737	v. d. Groeben.
211 39 13.0	5 5 24.5	14 44 31.2	817.8380	0.4248929	C. H. F. Peters.
136 26 1.5	5 24 33.0	4 30 21.3	798.0990	0.4319665	Leveau.
43 13 29.2	2 52 54.6	8 32 48.6	632.5948	0.4992540	Berberich.
188 14 55.0	21 30 55.0	10 6 59.0	970.4600	0.3753527	A. Leman.
63 10 51.0	4 35 55.0	9 14 4.3	625.17474	0.5026701	Berberich.
176 14 1.0	9 51 39.6	3 56 39.0	544.1827	0.5428412	Matthiessen.
352 27 18.8	4 23 35.4	6 2 27.4	617.98163	0.5060207	Schulhof.
4 42 21.8	8 1 1.3	17 12 53.0	799.9088	0.4313108	v. d. Groeben.
57 14 3.9	5 59 12.9	4 32 38.7	785.37505	0.436620	Sternberg.
306 39 51.1	4 56 20.2	5 58 35.2	849.9712	0.4137349	Holetschek.
324 13 23.0	2 37 9.3	7 25 29.0	934.8048	0.3861905	Tietjen.
123 18 26.4	5 2 18.1	5 0 32.8	969.10963	0.3757558	W. Luther.
164 40 55.6	4 53 53.8	7 55 32.6	810.5220	0.4274945	Anton.
309 19 50.6	11 35 36.3	11 5 7.8	966.3219	0.3765898	Watson.
64 42 11.5	3 35 10.3	8 3 59.9	770.3736	0.442203	H. Oppenheim.
349 41 19.0	14 56 21.2	1 31 51.9	685.2178	0.4761187	Tietjen.
47 40 42.4	7 46 29.6	9 29 20.0	932.11385	0.3870251	Holetschek.
203 58 4.8	5 44 15.8	4 42 49.9	855.7364	0.4117777	Berberich.
342 45 48.8	7 0 16.6	3 30 1.0	645.4399	0.4934339	Plath.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
121 Hermione . .	April 27	11.3	11.2	6.6	1910 April 22.0	1910.0	222° 43′ 6.5″	285° 25′ 49.8″
122 Gerda	Jan. 30	11.3	11.5	7.2	1910 Jan. 12.0	1910.0	301 40 37.0	12 1 29.0
123 Brunhild . .	März 7	11.8	11.8	8.5	1898 Juni 23.0	1910.0	210 35 25.0	122 14 17.2
124 Alkeste . . .	Juli 10	9.9	10.3	7.1	1890 Dez. 2.0	1910.0	180 26 7.9	58 14 32.3
125 Liberatrix. .	—	—	11.2	7.8	1897 Jan. 19.0	1910.0	202 46 5.6	104 32 55.5
126 Velleda . . .	Okt. 14	10.9	11.5	8.8	1899 Dez. 15.0	1910.0	81 58 56.5	325 47 25.0
127 Johanna . .	—	—	10.5	7.1	1890 Okt. 3.0	1910.0	251 23 46.9	90 26 21.5
128 Nemesis . .	Jan. 25	10.8	10.6	7.2	1897 Jan. 19.0	1910.0	144 20 2.3	300 34 0.1
129 Antigone . .	Dez. 10	11.3	10.3	6.6	1897 Jan. 19.0	1910.0	253 10 0.2	103 42 26.3
130 Elektra . . .	—	—	10.6	6.5	1898 Aug. 22.0	1910.0	337 5 55.3	233 46 1.6
131 Vala	Jan. 14	12.3	12.2	9.5	1898 Dez. 20.0	1910.0	288 37 28.9	155 56 24.1
132 Aethra . . .	—	—	10.9	8.0	1895 Nov. 30.5	1910.0	330 47 37.2	252 14 56.3
133 Cyrene . . .	Juli 23	10.7	11.3	7.3	1898 Jan. 14.0	1910.0	280 4 53.4	283 57 33.7
134 Sophrosyne .	Okt. 1	10.7	11.1	8.1	1910 Okt. 19.0	1910.0	317 14 38.0	82 13 46.4
135 Hertha . . .	Dez. 28	11.2	10.5	7.8	1898 Okt. 1.0	1910.0	33 3 56.2	337 7 56.5
136 Austria . . .	Nov. 21	11.3	11.2	8.9	1898 März 15.0	1910.0	211 14 20.2	130 28 54.5
137 Meliboea . .	—	—	11.8	7.7	1898 Nov. 10.0	1910.0	80 12 0.8	105 35 51.7
138 Tolosa . . .	Dez. 42	12.6	11.8	9.1	1896 Febr. 14.0	1910.0	190 23 49.0	258 3 38.4
139 Juewa. . . .	Juli 28	11.5	10.9	7.4	1898 Nov. 30.0	1910.0	299 0 11.9	162 8 50.0
140 Siwa	Okt. 12	10.8	11.4	8.0	1898 Okt. 1.0	1910.0	173 35 23.3	193 12 17.2
141 Lumen . . .	März 1	12.3	11.4	8.2	1890 Aug. 24.0	1910.0	321 2 54.7	54 13 35.4
142 Polana . . .	Aug. 8	12.1	12.2	9.5	1896 Dez. 10.0	1910.0	211 12 47.7	289 58 40.0
143 Adria	Dez. 12	12.4	12.4	9.0	1891 Okt. 18.0	1910.0	160 45 41.3	248 47 46.1
144 Vibilia . . .	Aug. 3	9.7	10.7	7.5	1888 Juli 18.0	1910.0	289 54 28.9	290 45 10.7
145 Adeona . . .	Juni 13	11.9	11.3	8.1	1898 Aug. 22.0	1910.0	240 12 41.7	40 33 3.5
146 Lucina . . .	März 3	11.0	11.1	7.7	1898 Aug. 2.0	1910.0	89 1 10.2	140 57 36.7
147 Protogeneia .	Dez. 13	12.5	12.5	8.4	1898 Sept. 11.0	1910.0	348 52 58.8	122 45 45.6
148 Gallia	März 28	11.7	11.0	7.5	1910 April 2.0	1910.0	135 1 22.3	251 2 43.2
149 Medusa . . .	Juli 25	12.1	12.9	10.0	1910 Juli 31.0	1910.0	262 49 18.4	249 52 9.4
150 Nuwa	Juni 16	11.4	11.6	7.7	1893 März 1.0	1910.0	155 36 25.8	146 41 42.7
151 Abundantia	Jan. 18	11.8	11.9	8.8	1898 März 15.0	1910.0	9 18 20.9	130 21 2.4
152 Atala	—	—	12.2	8.1	1899 Jan. 29.0	1910.0	27 31 7.9	42 37 0.7
153 Hilda	Febr. 9	13.2	12.6	7.3	1910 Febr. 21.0	1910.0	234 34 7.2	54 51 49.9
154 Bertha . . .	Dez. 23	11.4	11.2	7.0	1910 Dez. 18.0	1910.0	260 14 33.6	164 40 8.3
155 Scylla	—	—	13.5	9.8	1875 Nov. 8.5	1910.0	339 4 47	39 9 57
156 Xanthippe .	Aug. 25	11.6	11.3	7.9	1903 Jan. 29.0	1900.0	210 16 9.4	334 33 43.4
157 Dejanira . .	April 27	13.8	13.7	10.6	1904 Nov. 17.5	1904.0	330 35 43.9	45 39 12.1
158 Koronis . . .	Jan. 7	12.1	12.3	8.7	1898 Aug. 22.0	1910.0	278 50 53.8	138 43 15.9
159 Aemilia . . .	März 7	12.0	12.3	8.2	1897 Dez. 5.0	1910.0	324 40 17.3	331 52 54.3
160 Una	Okt. 24	11.4	11.8	8.4	1897 Dez. 25.0	1910.0	33 30 8.8	46 47 30.1

☊	i	φ	μ	Log. a	Autorität
75° 41′ 3.6″	7° 33′ 28.8″	8° 15′ 19.1″	555.12285″	0.5370783	Berberich.
178 46 28.4	1 36 33.0	3 6 26.0	615.80931	0.5070403	Lange.
308 38 28.5	6 25 27.6	7 1 21.7	802.5894	0.4303421	Berberich.
188 37 15.4	2 55 29.2	4 27 41.2	832.2976	0.4198186	Hall sen.
169 36 18.8	4 37 57.0	4 29 45.0	780.9349	0.4382611	Lange.
23 27 7.7	2 56 26.5	6 3 52.3	931.5192	0.3872099	Heuer.
31 53 43.8	8 15 42.7	3 47 29.9	775.8987	0.4401344	Maywald.
76 45 7.8	6 15 8.3	7 13 52.8	778.9624	0.4389934	de Ball.
137 58 12.8	12 10 1.8	12 15 18.0	730.5585	0.4575677	Austin.
146 16 41.6	22 58 1.8	12 29 21.9	646.4298	0.4929901	Powalky.
65 37 21.8	4 57 47.1	3 51 52.5	935.8550	0.3858654	Berberich.
260 11 30.0	23 32 20.0	19 21 13.8	903.6882	0.3959920	W. Luther.
321 25 52.7	7 13 50.2	8 2 47.1	662.6045	0.4858348	v. d. Groeben.
346 13 52.6	11 36 53.9	6 42 22.6	864.45983	0.4088412	Maywald.
344 13 36.6	2 18 34.4	11 45 17.6	937.0637	0.3854917	Maywald.
186 20 58.5	9 33 12.0	4 52 0.8	1025.7532	0.3593092	H. Oppenheim.
203 47 40.2	13 21 7.8	12 46 22.0	645.4607	0.4934245	Lange.
54 53 56.5	3 13 22.0	9 16 35.8	924.9117	0.3892709	v. d. Groeben.
2 33 1.8	10 55 19.7	9 57 48.4	764.0768	0.4445797	Berberich.
107 14 12.9	3 11 29.4	12 31 19.9	786.6737	0.4361413	v. d. Groeben.
319 28 26.5	11 58 39.3	12 16 57.4	814.6615	0.4260196	Berberich.
292 1 39.9	2 14 29.1	7 44 10.6	943.5246	0.3835023	L. Becker.
333 54 46.0	11 30 13.3	4 8 20.2	773.3958	0.4410699	von Haerdtl.
77 1 15.3	4 48 16.9	13 28 14.3	819.4849	0.4243104	Powalky.
77 55 52.9	12 41 10.3	8 24 20.6	812.2212	0.4268882	Tietjen.
84 26 43.8	13 5 8.8	3 39 14.6	791.4186	0.4344003	Berberich.
251 21 33.7	1 54 15.5	2 2 8.6	638.8069	0.4964247	L. Becker.
145 15 21.7	25 19 6.9	10 34 1.9	767.77183	0.4432035	L. Becker.
158 47 35.8	0 55 46.4	3 52 47.6	1106.37588	0.3374026	Lange.
207 50 0.6	2 8 18.4	7 20 7.3	689.2534	0.474418	H. Oppenheim.
39 1 12.0	6 28 21.2	2 10 51.3	850.1245	0.4136827	Riem.
41 25 0.5	12 13 21.2	4 12 12.4	637.2942	0.4971111	Lange.
228 23 10.3	7 51 42.8	9 20 36.5	450.75682	0.5973762	Kühnert.
37 7 16.3	20 58 23.8	5 2 23.5	624.40618	0.5030263	Anton.
43 20 30	14 4 31	14 49 28	713.7875	0.464292	Schulhof.
242 43 10.3	9 39 1.8	12 55 24.2	785.6858	0.436505	Ebell.
62 9 28.7	12 5 20.1	11 30 39.9	856.508	0.411518	Sternberg.
281 12 13.9	1 0 0.7	3 17 38.9	730.4848	0.4575969	Maywald.
135 12 3.7	6 4 55.0	5 37 45.9	647.4107	0.492551	Berberich.
9 24 54.3	3 51 22.4	3 45 8.1	787.7290	0.435753	P. Neugebauer.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
161 Athor	Okt. 13	10.6	11.0	8.4	1896 Dez. 30.0	1910.0	142° 39′ 1.6″	291° 48′ 34.3″
162 Laurentia . .	Okt. 17	12.7	12.3	8.4	1899 Sept. 6.0	1910.0	215 30 54.3	106 2 42.9
163 Erigone . . .	Aug. 20	12.0	11.5	9.0	1907 Nov. 4.0	1910.0	334 40 45.7	295 29 18.5
164 Eva	Mai 19	12.0	11.5	8.3	1910 Juni 1.0	1910.0	274 53 39.9	282 17 32.6
165 Loreley . . .	Okt. 12	11.2	11.1	7.0	1897 April 9.0	1910.0	290 21 20.7	342 30 12.7
166 Rhodope . . .	Mai 2	13.5	12.5	9.2	1897 Juni 8.0	1910.0	213 52 27.9	261 28 49.8
167 Urda	Sept. 19	12.9	13.0	9.4	1898 Jan. 14.0	1910.0	197 17 5.7	121 7 43.9
168 Sibylla	Febr. 19	11.9	11.6	7.1	1899 Mai 29.0	1910.0	218 22 50.2	174 26 31.9
169 Zelia	—	—	11.3	8.8	1890 Aug. 4.0	1910.0	328 1 8.3	332 10 48.8
170 Maria	März 3	11.6	11.7	8.7	1910 März 13.0	1910.0	66 0 9.6	156 19 5.9
171 Ophelia . . .	—	—	12.1	8.0	1897 Okt. 6.0	1910.0	236 0 17.5	50 27 33.1
172 Baucis	Febr. 17	11.0	10.4	7.8	1889 Juni 30.0	1910.0	316 43 41.4	356 48 28.3
173 Ino	—	—	11.0	7.6	1897 Jan. 19.0	1910.0	71 13 19.6	224 39 41.9
174 Phaedra . . .	Mai 18	10.8	11.6	8.0	1897 Okt. 6.0	1910.0	129 24 10.1	286 21 18.9
175 Andromache	April 10	12.8	12.3	8.0	1908 Jan. 3.0	1910.0	110 44 33.6	302 27 21.5
176 Idunna . . .	Juni 22	12.4	12.1	7.9	1910 Juli 11.0	1910.0	271 34 16.1	182 41 34.5
177 Irma	—	—	12.4	9.0	1897 Jan. 19.0	1910.0	71 42 48.0	33 16 9.9
178 Belisana . . .	März 14	12.0	12.0	9.2	1910 März 13.0	1910.0	273 56 20.5	212 28 52.4
179 Klytaemnestra	Febr. 28	12.1	11.5	7.7	1897 Okt. 6.0	1910.0	14 32 37.3	100 30 2.0
180 Garumna . .	April 21	13.0	13.3	9.9	1899 Nov. 5.0	1910.0	308 53 34.6	169 12 38.1
181 Eucharis . .	—	—	11.5	7.4	1887 Okt. 19.0	1910.0	305 49 36.6	310 26 20.5
182 Elsa	Sept. 17	10.2	11.0	8.3	1897 März 20.0	1910.0	102 51 45.1	308 16 41.4
183 Istria	—	—	12.6	9.1	1900 Dez. 10.0	1910.0	15 39 20.2	262 21 44.2
184 Dejopeja . . .	Nov. 28	12.6	12.4	8.2	1910 Dez. 18.0	1910.0	244 34 37.1	217 10 44.9
185 Eunike . . .	März 24	11.0	10.0	6.6	1889 Aug. 29.0	1910.0	328 9 2.3	221 34 37.8
186 Celuta	Febr. 4	12.3	11.4	8.9	1897 Aug. 27.0	1910.0	2 39 38.6	313 36 27.2
187 Lamberta . .	Juni 22	10.3	11.4	8.0	1897 Aug. 27.0	1910.0	94 42 30.1	192 2 46.6
188 Menippe . . .	Mai 5	12.7	13.0	9.6	1897 Sept. 1.0	1910.0	23 1 52.2	66 36 36.3
189 Phthia	—	—	11.5	8.8	1900 Mai 24.0	1910.0	234 17 27.2	166 0 10.0
190 Ismene . . .	Nov. 25	11.3	12.0	6.7	1910 Nov. 8.0	1910.0	327 17 17.8	286 44 42.4
191 Kolga	Febr. 12	12.2	12.0	8.3	1897 Juli 18.0	1910.0	271 52 28.4	224 21 12.1
192 Nausikaa . .	Juni 13	9.5	9.3	6.7	1888 Juli 25.0	1910.0	324 20 18.4	27 40 24.5
193 Ambrosia . .	—	—	12.2	9.2	1879 März 25.5	1910.0	68 48 35.8	79 36 55.8
194 Prokne . . .	Nov. 3	10.0	10.5	7.4	1899 Jan. 29.0	1910.0	130 9 24.2	160 37 18.4
195 Eurykleia . .	Sept. 14	12.4	12.6	8.9	1896 Nov. 20.0	1910.0	289 6 21.8	118 7 2.1
196 Philomela . .	Dez. 43	10.6	10.3	6.3	1901 April 9.0	1910.0	240 25 11.6	237 19 45.5
197 Arete	März 20	13.4	12.7	9.3	1900 Jan. 24.0	1910.0	134 40 9.5	243 28 47.4
198 Ampella . . .	Juni 30	10.4	11.1	8.3	1910 Juli 31.0	1910.0	314 11 54.5	88 1 12.0
199 Byblis	—	—	12.4	8.2	1909 Nov. 13.0	1910.0	138 47 14.4	171 8 9.7
200 Dynamene . .	Juni 7	11.9	11.3	7.9	1888 Juli 25.0	1910.0	277 46 23.8	82 43 1.3

Ω	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
18 48 52.5	9 3 17.7	7 57 23.4	967.0645	0.3763675	Tietjen.
38 16 1.8	6 5 6.0	10 31 5.3	676.5719	0.4797951	Tietjen.
160 15 7.2	4 46 38.3	11 1 54.1	974.2162	0.3742342	Berberich.
77 25 24.6	24 20 38.1	20 22 0.7	830.75127	0.4205237	Richter.
304 11 19.1	11 12 5.0	3 54 10.6	641.1299	0.4953737	Samter.
129 39 27.9	12 1 54.8	12 13 13.9	806.7683	0.4288385	Richter.
166 38 10.8	2 10 45.6	1 59 3.7	736.5954	0.4551851	Lange.
209 23 56.1	4 36 6.5	4 21 54.0	571.6864	0.5285658	v. d. Groeben.
354 58 8.5	5 30 51.2	7 31 33.7	979.6462	0.3726249	Richter.
301 23 56.1	14 21 9.7	3 38 8.4	868.72749	0.4074153	Lange.
101 3 53.7	2 33 12.1	6 38 28.6	636.3859	0.4975241	Berberich.
332 11 35.0	10 2 10.4	6 32 18.8	965.9899	0.3766893	Berberich.
148 53 6.9	14 15 36.8	11 51 44.6	780.8006	0.4383110	Bečka.
328 48 32.4	12 6 32.9	8 23 43.8	734.0156	0.456201	H. Oppenheim.
25 26 12.4	3 10 33.3	11 4 20.9	611.29468	0.5091706	Berberich.
200 57 12.2	22 43 20.2	10 16 21.6	628.26359	0.5012431	P. Neugebauer.
349 34 1.8	1 26 55.3	13 32 58.0	768.8406	0.4427802	Richter.
51 1 8.7	1 54 28.5	2 34 36.4	919.16707	0.3910715	Berberich.
253 20 50.4	7 47 52.8	6 37 0.0	692.8578	0.472908	H. Oppenheim.
314 50 1.1	0 53 40.8	9 46 17.7	790.4612	0.4347507	v. d. Groeben.
145 7 22.1	18 35 23.6	12 40 26.5	643.5438	0.4942856	de Ball.
106 46 38.9	2 10 9.1	10 50 51.9	944.5132	0.3831990	Samter.
142 54 44.3	26 25 59.5	20 27 8.2	760.4634	0.4459522	Petrelius.
333 48 39.4	1 9 53.4	3 28 22.0	622.48092	0.5039204	Thraen.
154 3 8.4	23 14 21.7	7 11 14.1	782.8522	0.4375512	Bauschinger.
14 43 53.5	13 11 11.6	8 41 21.3	977.5884	0.3732337	Tietjen.
22 22 32.4	10 41 24.8	13 36 43.5	785.6152	0.4365311	A. Leman.
241 56 25.8	11 44 36.3	10 15 28.9	772.712	0.441326	Coniel.
203 32 11.1	5 8 54.2	2 4 18.4	924.2246	0.3894861	H. Oppenheim.
177 0 17.4	6 8 17.0	9 38 10.0	453.68733	0.5955000	Küstner.
159 59 7.7	11 29 25.6	5 13 5.0	720.0541	0.4617609	L. Becker.
343 33 25.4	6 51 40.6	14 9 22.7	952.4502	0.3807762	Lange.
351 40 33.1	11 38 46.5	16 34 52.0	858.2960	0.410913	A. Leman.
159 29 8.2	18 25 4.9	13 50 55.7	839.1447	0.4174465	Tietjen.
7 52 26.6	7 0 9.8	2 25 31.9	727.0481	0.4589623	Riem.
73 27 31.0	7 17 1.5	1 13 48.1	646.0377	0.4931658	P. V. Neugebauer.
82 10 10.5	8 49 20.8	9 22 12.5	782.6498	0.4376261	Lange.
268 24 5.6	9 18 6.5	13 8 54.7	920.04801	0.3907974	v. d. Groeben.
89 40 27.7	15 24 49.2	10 31 43.7	630.79505	0.5000789	Tietjen.
325 35 38.5	6 54 46.3	7 41 20.4	783.6017	0.4372741	Bauschinger.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
201 Penelope . .	Okt. 19	11.0	11.9	8.6	1897 Nov. 15.0	1910.0	53 1 33.0	177 43 4.8
202 Chryseïs . .	Juni 18	11.0	10.7	6.7	1896 Nov. 20.0	1910.0	296 12 57.2	355 17 24.9
203 Pompeja . .	Juli 22	12.7	11.7	8.3	1899 Jan. 9.0	1910.0	65 39 8.5	53 45 33.1
204 Kallisto . . .	Nov. 25	12.8	12.0	8.7	1888 Nov. 2.0	1910.0	140 55 19.4	51 16 26.1
205 Martha . . .	Mai 28	12.8	12.7	9.2	1886 Febr. 26.0	1910.0	139 40 10.2	172 8 41.4
206 Hersilia . . .	Juli 23	12.2	12.0	8.6	1887 Juni 21.0	1910.0	184 57 36.2	300 24 35.6
207 Hedda . . .	Okt. 19	12.0	11.8	9.5	1898 Febr. 3.0	1910.0	280 15 16.2	190 38 50.0
208 Lacrimosa . .	—	—	12.1	8.4	1899 Nov. 25.0	1910.0	315 23 43.1	105 47 59.3
209 Dido	März 18	11.5	11.5	7.4	1897 Dez. 25.0	1910.0	222 32 56.9	249 39 35.2
210 Isabella . . .	Sept. 6	12.0	12.5	9.1	1897 Okt. 26.0	1910.0	358 48 23.3	10 17 39.2
211 Isolda	Sept. 1	11.4	11.5	7.5	1895 Nov. 26.0	1910.0	1 10 15.0	170 41 36.4
212 Medea	Aug. 18	12.1	12.2	8.1	1899 Juli 28.0	1910.0	276 2 57.4	101 16 7.9
213 Lilaea	Dez. 18	12.4	11.7	8.3	1898 Febr. 23.0	1910.0	229 20 37.9	158 35 27.9
214 Aschera . . .	Mai 1	12.2	12.1	9.0	1897 April 9.0	1910.0	72 5 59.3	128 5 43.8
215 Oenone . . .	Dez. 29	12.8	12.7	9.3	1891 Nov. 7.0	1910.0	55 43 48.8	314 6 30.5
216 Kleopatra . .	Okt. 3	8.5	10.1	6.6	1886 Juni 26.0	1910.0	277 9 56.8	176 11 54.3
217 Eudora . . .	Dez. 13	13.7	13.1	9.5	1900 Dez. 10.0	1910.0	75 4 1.8	150 32 44.9
218 Bianca . . .	Juli 14	11.1	11.4	8.2	1893 Aug. 28.0	1910.0	96 4 34.6	58 48 58.8
219 Thusnelda .	—	—	11.2	8.8	1889 Jan. 21.0	1910.0	130 33 20.7	140 3 44.8
220 Stephania . .	—	—	13.6	11.0	1887 Jan. 0.5	1910.0	131 12 41.6	75 7 33.9
221 Eos	Juli 16	10.8	11.3	7.4	1898 März 15.0	1910.0	201 46 0.0	188 0 19.7
222 Lucia	März 20	12.6	12.9	8.8	1898 Jan. 14.0	1910.0	225 34 56.4	175 52 41.3
223 Rosa	Mai 12	13.5	13.3	9.2	1891 Dez. 17.0	1910.0	333 23 9.3	58 28 30.7
224 Oceana . . .	Dez. 13	12.0	11.7	8.5	1890 Febr. 5.0	1910.0	225 24 48.8	276 55 27.0
225 Henrietta . .	Dez. 24	13.8	12.7	8.2	1903 Nov. 5.0	1910.0	88 41 26.8	97 37 49.8
226 Weringia . .	Dez. 16	14.0	13.0	9.7	1891 Aug. 19.0	1910.0	30 52 14.2	150 8 45.9
227 Philosophia .	Sept. 2	13.1	12.9	8.7	1896 Dez. 10.0	1910.0	283 51 33.6	254 29 42.9
228 Agathe . . .	Jan. 26	15.6	14.5	12.4	1892 Nov. 21.5	1910.0	49 45 10.8	16 2 37.2
229 Adelinda . .	Jan. 9	13.9	13.5	8.9	1901 Aug. 27.0	1910.0	3 50 29.2	303 1 51.4
230 Athamantis .	Febr. 25	10.6	10.3	7.7	1897 Okt. 26.0	1910.0	11 22 17.7	137 12 47.9
231 Vindobona .	Febr. 5	12.2	12.4	8.6	1898 Nov. 10.0	1910.0	164 53 38.2	263 38 46.4
232 Russia . . .	Dez. 11	13.8	13.4	10.4	1901 Sept. 16.0	1910.0	159 56 8.4	48 35 13.8
233 Asterope . .	Aug. 26	10.7	11.3	8.1	1897 Aug. 27.0	1910.0	353 18 46.2	122 35 34.5
234 Barbara . . .	—	—	11.7	9.1	1898 Okt. 21.0	1910.0	33 57 10.0	190 6 58.4
235 Carolina . .	März 27	12.2	12.2	8.5	1897 Sept. 16.0	1910.0	73 32 29.3	207 24 29.7
236 Honoria . . .	—	—	11.4	7.9	1890 Aug. 20.5	1910.0	341 11 56.1	170 30 20.7
237 Coelestina . .	Jan. 1	13.2	12.8	9.4	1897 März 20.0	1910.0	258 3 0.9	196 24 38.6
238 Hypatia . . .	Dez. 38	11.6	11.7	8.0	1900 Dez. 10.0	1910.0	54 45 6.4	207 2 40.9
239 Adrastea . .	Okt. 22	12.7	14.0	10.2	1900 Dez. 10.0	1910.0	26 23 21.4	206 1 9.9
240 Vanadis . .	Aug. 16	12.3	12.5	9.3	1901 Juli 18.0	1910.0	262 20 34.3	298 17 15.6

☊	*i*	*φ*	*μ*	Log. *a*	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
157 17 30.2	5 43 18.9	10 25 23.2	809.8362	0.4277396	Bauschinger.
137 54 25.3	8 49 26.9	5 51 45.4	659.4551	0.4872142	Berberich.
348 46 39.6	3 12 20.0	3 28 23.6	783.8637	0.4371774	Berberich.
206 2 34.8	8 17 3.5	9 51 34.4	812.2343	0.4268835	Palisa.
212 34 39.7	10 39 53.8	1 54 54.4	765.9190	0.4438825	Küstner.
145 33 33.3	3 45 25.4	2 19 59.5	782.3554	0.437735	Stechert.
29 5 52.3	3 49 3.8	1 39 3.3	1027.9888	0.3586788	Richter.
5 25 26.9	1 47 15.0	0 54 11.9	721.0639	0.4613553	Berberich.
2 8 19.7	7 14 33.2	3 46 48.4	636.9842	0.4972519	Bauschinger.
33 11 5.1	5 18 10.8	7 6 30.8	790.0977	0.4348838	Berberich.
265 28 46.4	3 52 0.2	9 15 38.8	668.6056	0.4832244	Bauschinger.
315 15 56.5	4 16 54.7	6 40 42.2	647.3973	0.4925571	L. Becker.
122 36 4.4	6 46 27.7	8 19 49.1	777.0010	0.4397233	A. Leman.
342 41 30.4	3 27 38.3	1 55 49.3	841.5265	0.416626	Tietjen.
25 28 14.6	1 43 23.1	2 1 15.5	771.4115	0.4418137	Bauschinger.
216 8 54.0	13 2 22.4	14 31 20.7	759.7703	0.4462162	Knopf.
164 9 28.1	10 15 31.0	17 38 25.1	727.0438	0.4589640	Richter.
171 10 12.2	15 12 11.0	6 36 19.6	814.9375	0.4259216	Bauschinger.
201 5 2.9	10 47 16.8	12 54 38.9	982.2924	0.3718439	Darmer.
258 52 26.3	7 34 13.7	14 53 43.7	984.634	0.371154	Bidschof.
142 45 34.4	10 50 59.6	5 34 47.1	677.3539	0.4794607	Bauschinger.
80 28 19.6	2 10 46.9	8 27 39.8	641.7676	0.4950859	Berberich.
48 48 2.4	1 58 46.6	6 57 0.4	652.9855	0.4900687	Bauschinger.
353 39 57.4	5 52 27.9	2 25 51.0	824.6755	0.4224824	S. Oppenheim.
200 52 24.6	20 41 56.1	15 18 16.8	567.5897	0.530647	Cerulli.
135 39 6.7	15 49 30.5	11 43 4.3	793.2109	0.433745	Kreutz.
331 9 43.9	9 15 0.1	12 2 39.9	637.0300	0.4972311	Lange.
313 44 55.4	2 33 21.6	13 55 0.2	1086.2400	0.3427205	Kreutz.
30 51 11.2	2 9 17.4	8 9 53.2	562.4884	0.5332620	Berberich.
239 53 16.0	9 25 11.6	3 32 52.8	964.9093	0.3770134	Richter.
352 24 25.6	5 8 18.5	8 56 36.2	711.1049	0.4653820	Lange.
152 33 31.6	6 4 17.4	9 51 22.1	869.5956	0.4071263	v. d. Groeben.
222 40 10.4	7 39 4.5	5 49 43.8	817.9445	0.4248552	Knopf.
144 25 8.3	15 21 14.2	14 7 1.5	962.6609	0.3776889	Tietjen.
66 42 2.0	9 4 3.2	3 31 18.9	725.2712	0.4596708	Tietjen.
186 49 0.9	7 36 48.4	10 54 45.4	758.1024	0.446853	Bidschof.
84 44 24.1	9 45 48.7	4 1 30.3	771.8775	0.4416388	Schwarz.
184 35 15.0	12 23 12.7	5 10 15.7	715.9041	0.463434	Berberich.
181 39 47.0	6 9 4.0	13 26 21.7	693.1222	0.472798	Berberich.
114 55 52.6	2 5 52.9	11 54 32.0	814.7587	0.4259851	Berberich.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
241 Germania . .	Juli 15	10.8	11.2	7.2	1910 Juli 11.0	1910.0	313° 3′ 13.8″	76° 11′ 10.9″
242 Kriemhild . .	Jan. 20	12.0	12.6	9.0	1889 Dez. 27.0	1910.0	307 49 54.4	274 28 16.5
243 Ida	Jan. 16	13.2	13.3	9.7	1898 Sept. 11.0	1910.0	276 49 8.8	104 57 1.6
244 Sita	Dez. 36	13.7	13.7	11.7	1900 Okt. 11.0	1910.0	6 50 18.3	164 28 0.7
245 Vera	Aug. 6	12.1	12.5	8.5	1897 März 20.0	1910.0	141 1 15.6	326 20 12.9
246 Asporina . .	—	—	11.7	8.4	1890 Jan. 16.0	1910.0	316 40 26.7	94 5 7.1
247 Eukrate . . .	Sept. 15	10.1	11.0	7.6	1910 Sept. 9.0	1910.0	316 58 24.1	53 38 32.2
248 Lameia . . .	Dez. 28	13.3	13.0	10.2	1905 Aug. 6.0	1910.0	71 44 12.3	1 2 34.4
249 Ilse	Mai 11	14.5	13.6	11.1	1904 Dez. 29.0	1910.0	69 11 14.1	39 42 30.4
250 Bettina . . .	Febr. 15	11.0	11.5	7.3	1897 Nov. 15.0	1910.0	332 3 32.7	66 3 47.2
251 Sophia . . .	April 14	13.9	13.6	9.6	1902 Nov. 10.0	1910.0	335 39 10.4	288 20 55.2
252 Clementina .	Febr. 9	13.3	13.0	8.8	1901 Juli 18.0	1910.0	317 26 58.9	148 50 33.1
253 Mathilde . .	Mai 26	13.0	13.4	10.2	1901 April 9.0	1910.0	256 52 2.1	153 38 18.0
254 Augusta . .	Nov. 28	13.1	13.4	11.3	1887 Juli 31.0	1910.0	101 27 54.0	230 49 10.4
255 Oppavia . .	Aug. 30	14.2	13.8	10.4	1890 Jan. 16.0	1910.0	336 40 35.6	149 6 36.3
256 Walpurga . .	Dez. 32	13.5	13.2	9.3	1906 Febr. 2.0	1910.0	254 22 31.1	48 28 9.1
257 Silesia	Sept. 12	12.5	12.8	8.7	1902 April 4.0	1910.0	106 36 49.5	25 30 6.8
258 Tyche	Jan. 13	11.5	11.1	8.0	1904 Okt. 10.0	1900.0	4 23 24.3	152 52 26.8
259 Aletheia . .	Nov. 5	12.7	12.1	8.0	1899 Nov. 25.0	1910.0	162 11 23.4	156 52 33.7
260 Huberta . .	Mai 1	14.0	13.9	9.2	1900 Dez. 10.0	1910.0	92 3 1.9	163 58 5.7
261 Prymno . . .	Juli 4	12.1	11.5	9.0	1897 Nov. 15.0	1910.0	275 46 24.4	63 7 47.9
262 Valda	Aug. 18	14.0	14.1	11.1	1901 Mai 19.0	1910.0	189 4 51.8	22 36 56.6
263 Dresda . . .	Aug. 29	12.9	13.3	9.6	1903 Febr. 18.0	1910.0	133 51 41.8	158 3 22.8
264 Libussa . . .	Dez. 31	11.8	12.1	8.6	1895 Aug. 18.0	1910.0	316 59 55.7	336 41 5.1
265 Anna	Juni 17	9.6	13.8	11.1	1906 März 14.0	1910.0	334 34 37.9	251 23 58.2
266 Aline	April 19	12.5	11.7	8.2	1904 Jan. 4.0	1900.0	65 48 59.9	147 50 13.7
267 Tirza	Mai 21	13.4	14.0	10.5	1901 Juni 28.0	1910.0	4 14 46.5	193 22 52.6
268 Adorea . . .	Sept. 10	13.2	12.5	8.5	1903 Mai 29.0	1910.0	41 9 17.0	58 53 55.4
269 Justitia . . .	—	—	12.7	9.6	1900 Okt. 31.0	1910.0	91 35 3.3	115 31 13.2
270 Anahita . . .	Nov. 19	10.8	11.0	8.9	1910 Nov. 28.0	1910.0	69 42 14.1	78 32 57.1
271 Penthesilea .	Febr. 4	12.9	12.8	8.9	1902 Aug. 22.0	1910.0	303 17 6.1	49 19 54.7
272 Antonia . . .	—	—	13.6	10.1	1899 Juli 28.0	1910.0	208 59 58.9	65 32 12.4
273 Atropos . . .	Jan. 28	12.4	11.6	9.0	1888 März 9.5	1910.0	261 20 1.8	118 28 21.5
274 Philagoria .	Juli 1	13.2	13.6	9.6	1905 Juli 17.0	1910.0	81 26 30.7	114 39 38.8
275 Sapientia . .	—	—	12.0	8.5	1902 April 24.0	1910.0	36 26 14.9	31 7 20.2
276 Adelheid . .	April 24	11.7	11.8	7.7	1905 Mai 18.0	1910.0	118 0 50.3	272 32 19.8
277 Elvira	Dez. 23	13.0	13.1	9.4	1907 März 9.0	1910.0	156 48 17.8	131 37 27.2
278 Paulina . . .	Jan. 29	12.4	12.7	9.3	1906 April 23.0	1910.0	4 42 43.8	137 20 17.4
279 Thule	Febr. 27	14.2	13.8	8.1	1907 Dez. 6.5	1910.0	121 15 55.9	234 27 55.0
280 Philia	Febr. 3	13.9	14.4	10.6	1900 Febr. 13.0	1910.0	39 45 20.2	80 58 25.3

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
271 52 56.1	5 29 56.1	5 44 3.0	666.34845	0.4842035	W. Luther.
208 16 16.8	11 16 52.0	7 5 15.3	732.9031	0.4566401	Herz.
326 14 27.5	1 9 23.6	2 43 0.0	733.1121	0.456558	Berberich.
208 48 21.5	2 49 38.7	7 52 21.3	1106.6025	0.3373433	Berberich.
62 9 21.1	5 11 20.0	11 37 34.2	651.4943	0.4907307	Tietjen.
162 54 3.3	15 37 35.8	6 2 43.0	802.267	0.4304584	Seydler.
0 18 41.2	25 5 2.6	13 59 44.7	782.08161	0.4378363	W. Luther.
246 45 12.4	4 0 52.7	3 40 49.9	913.94026	0.3927259	Berberich.
334 49 30.7	9 40 10.9	12 28 59.5	968.2498	0.3760128	Berberich.
25 44 44.7	12 56 32.7	7 1 38.3	633.85003	0.498680	P. V. Neugebauer.
156 56 53.5	10 29 21.1	5 38 31.8	650.38006	0.4912263	Knopf.
203 12 39.2	9 59 40.2	4 15 39.6	632.1027	0.4994793	Charlois.
180 9 24.1	6 38 16.5	15 28 16.9	824.9747	0.4223773	Knopf.
28 28 40.6	4 32 3.2	6 58 7.6	1091.0836	0.3414323	Schwarz.
14 21 30.2	9 30 41.9	4 40 24.1	780.0705	0.4385818	Laves.
183 38 34.4	13 17 58.1	3 43 37.0	683.2594	0.4769473	Berberich.
35 32 38.3	3 40 9.7	7 18 8.3	646.6326	0.4928994	Berberich.
207 43 26.2	14 15 2.4	11 52 56.0	838.8243	0.4175571	Stechert.
88 37 4.1	10 42 43.7	6 20 43.1	635.21397	0.4980577	Ernst.
168 3 52.2	6 17 53.3	7 7 16.5	554.7196	0.5372887	v. d. Groeben.
96 28 8.3	3 38 28.6	5 9 55.5	996.7823	0.3676042	Riem.
38 44 43.0	7 44 4.6	12 14 5.8	869.5200	0.4071513	Berberich.
217 47 31.0	1 16 53.0	4 21 32.2	722.5549	0.4607572	v. d. Groeben.
50 12 15.6	10 26 47.1	7 44 47.5	757.7014	0.4470056	Cerulli.
335 26 56.8	25 40 50.5	15 20 26.1	941.9275	0.3839928	Berberich.
236 19 21.7	13 21 1.2	9 1 20.5	755.6505	0.4477904	Berberich.
74 11 19.8	6 1 26.2	5 46 49.5	767.3626	0.4433373	v. d. Groeben.
121 47 54.0	2 25 39.9	7 45 32.6	652.37206	0.4903408	Berberich.
157 37 9.8	5 25 49.2	12 18 39.7	838.9442	0.4175157	Berberich.
254 27 59.2	2 21 38.4	8 38 46.0	1088.54983	0.3421055	Berberich.
337 6 44.8	3 34 52.4	5 47 42.9	679.1966	0.4786741	Knopf.
37 51 15.8	4 28 30.9	1 46 56.3	767.2554	0.4433777	Charlois.
159 7 3.3	20 24 0.8	9 19 0.4	955.4037	0.379880	Lange.
93 45 36.1	3 40 53.3	7 7 6.3	669.09610	0.4830121	Berberich.
134 55 18.6	4 44 44.3	9 18 0.2	769.93398	0.4423688	Lange.
211 36 29.4	21 35 30.5	4 7 12.9	645.07018	0.4935998	Hackenberg.
233 17 5.0	1 8 0.1	5 18 42.5	724.6235	0.4599295	Berberich.
62 20 28.0	7 49 44.6	7 47 48.7	776.6491	0.4398545	Berberich.
75 36 14.8	2 22 29.8	4 37 35.7	404.29239	0.6288740	Wedemeyer.
11 25 17.4	7 27 30.5	6 19 13.9	703.8816	0.4683380	Berberich.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
281 Lucretia . .	Juli 1	13.4	13.1	11.0	1888 Nov. 2.5	1910.0	353° 32′ 12.5″	14° 35′ 2.4″
282 Clorinde . .	—	—	13.3	10.8	1905 Aug. 26.0	1910.0	277 9 37.1	294 43 20.3
283 Emma	Jan. 29	12.3	11.8	7.8	1901 Mai 19.0	1910.0	249 24 18.8	49 52 23.4
284 Amalia . . .	Febr. 1	14.0	12.9	10.4	1905 Dez. 24.0	1910.0	168 23 3.0	55 42 58.7
285 Regina . . .	—	—	14.9	10.9	1889 Aug. 19.5	1910.0	357 36 27.2	12 28 58.7
286 Iclea	April 2	13.3	13.2	9.0	1905 Juni 7.0	1910.0	211 56 51.1	243 11 59.6
287 Nephthys . .	Mai 19	10.6	10.7	8.2	1899 April 19.0	1910.0	311 52 37.9	117 32 38.4
288 Glauke . . .	Sept. 19	13.4	12.5	9.1	1910 Sept. 9.0	1910.0	139 43 47.1	79 57 57.3
289 Nenetta . . .	März 21	13.4	12.5	8.8	1907 Aug. 16.0	1910.0	337 3 13.4	185 22 3.2
290 Bruna	Nov. 21	12.7	13.9	11.5	1890 Mai 7.5	1910.0	56 49 22.1	103 32 41.3
291 Alice	Mai 17	13.6	13.6	11.4	1905 Dez. 24.0	1910.0	337 18 6.1	329 28 13.1
292 Ludovica . .	April 14	12.6	12.5	9.5	1903 Sept. 6.5	1910.0	3 3 9.9	287 29 17.0
293 Brasilia . . .	Juli 18	13.3	12.9	9.2	1890 Juni 17.5	1910.0	92 28 41.4	82 22 24.6
294 Felicia . . .	Febr. 8	15.5	14.3	10.2	1901 Aug. 7.0	1910.0	353 2 17.9	179 28 13.6
295 Theresia . .	—	—	13.5	10.0	1900 Dez. 10.0	1910.0	8 35 38.2	143 48 50.9
296 Phaëtusa . .	Sept. 12	12.2	13.3	11.1	1890 Aug. 22.0	1910.0	330 33 11.7	250 4 4.6
297 Caecilia . . .	Febr. 6	14.0	13.3	9.1	1906 Juni 2.0	1910.0	300 21 16.8	346 24 30.3
298 Baptistina .	Aug. 8	14.1	13.5	11.3	1906 Mai 13.0	1910.0	83 33 27.7	132 43 13.3
299 Thora	—	—	14.5	11.7	1903 Jan. 19.5	1910.0	83 26 9.5	147 35 9.9
300 Geraldina . .	Febr. 5	12.7	12.5	8.2	1895 Juli 10.0	1910.0	336 44 54.3	283 3 2.7
301 Bavaria . . .	Febr. 6	12.9	12.7	9.3	1903 Okt. 16.0	1910.0	95 17 5.1	121 19 7.3
302 Clarissa . . .	—	—	13.9	11.2	1901 Sept. 16.0	1910.0	290 56 54.8	53 3 25.3
303 Josephina . .	Aug. 16	12.0	12.0	7.9	1908 März 23.5	1910.0	118 30 44.3	70 2 57.9
304 Olga	März 29	13.2	12.4	9.7	1906 Febr. 2.0	1910.0	193 33 14.2	169 45 47.0
305 Gordonia . .	Aug. 20	13.0	12.5	8.4	1905 Okt. 5.0	1910.0	281 49 57.0	250 36 56.1
306 Unitas . . .	Juli 14	9.7	10.7	8.2	1902 März 15.5	1910.0	240 21 9.1	165 31 57.6
307 Nike	—	—	13.1	9.4	1891 März 8.5	1910.0	74 37 11.8	320 29 5.7
308 Polyxo . . .	Juni 20	10.8	11.0	7.6	1902 Nov. 10.0	1910.0	97 52 8.3	108 53 30.4
309 Fraternitas .	Dez. 1	12.8	12.7	9.5	1891 Mai 11.5	1910.0	239 5 58.0	332 8 15.9
310 Margarita . .	Aug. 9	13.8	13.5	10.1	1891 Juni 17.5	1910.0	48 49 25.4	320 41 8.3
311 Claudia . . .	April 9	12.9	13.0	9.3	1903 Dez. 15.0	1910.0	301 3 0.2	71 48 18.9
312 Pierretta . .	Nov. 4	13.0	12.5	9.0	1901 Nov. 15.0	1910.0	149 15 57.6	256 32 46.2
313 Chaldaea . .	Dez. 5	9.6	10.3	7.7	1906 Okt. 20.0	1910.0	272 0 32.8	313 53 31.3
314 Rosalia . . .	Jan. 22	14.5	14.0	9.9	1907 Juli 7.0	1910.0	304 32 21.0	185 10 13.6
315 Constantia .	März 3	14.9	14.0	11.8	1891 Sept. 4.5	1910.0	9 27 44.6	171 22 42.4
316 Goberta . . .	—	—	13.3	9.1	1893 Jan. 0.0	1910.0	11 29 4.9	307 29 39.4
317 Roxane . . .	—	—	12.2	9.8	1904 März 24.0	1910.0	223 53 21.1	185 10 51.7
318 Magdalena .	Dez. 42	13.0	13.2	9.0	1903 Sept. 26.0	1910.0	294 58 3.9	273 31 23.8
319 Leona	Okt. 25	13.0	14.2	9.7	1906 Febr. 22.0	1910.0	83 18 24.7	216 19 52.6
320 Katharina . .	April 16	14.7	13.7	9.8	1891 Dez. 2.5	1910.0	23 36 28.6	142 54 14.8

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
31 18 2.7	5 19 37.6	7 35 40.8	1097.869	0.339637	Seydler.
144 47 14.0	9 1 23.8	4 40 42.6	992.0943	0.3689684	Berberich.
305 51 15.2	8 2 29.8	8 46 12.1	668.5906	0.483231	Berberich.
234 2 0.7	8 4 14.3	12 51 34.8	979.7243	0.3726018	Berberich.
312 19 2.3	17 16 57.9	11 55 35.4	661.4827	0.4863254	Charlois.
149 38 59.4	17 53 34.1	0 45 31.4	620.6276	0.5047837	Berberich.
142 13 54.2	10 1 20.1	1 19 35.4	982.6631	0.371735	Cerulli.
121 4 27.0	4 19 54.9	11 49 38.2	773.44659	0.4410509	R. Luther.
182 36 31.3	6 39 22.0	11 44 54.4	728.0005	0.4585832	Berberich.
10 35 19.4	22 13 28.1	15 4 22.7	995.1925	0.368066	S. Oppenheim.
161 7 22.5	1 50 32.2	5 19 14.8	1071.1737	0.3467645	Berberich.
43 11 16.0	14 52 8.2	1 41 17.2	880.6967	0.4034534	Berberich.
62 20 54.1	15 45 20.9	6 48 2.9	730.8370	0.4574574	Charlois.
137 3 38.4	6 14 57.7	14 21 59.6	638.4006	0.4966088	P. V. Neugebauer.
277 34 14.1	2 40 23.3	9 49 31.5	758.6107	0.4466584	Berberich.
121 1 53.2	1 44 47.3	9 6 25.9	1068.122	0.3475906	Coniel.
333 34 56.7	7 34 41.9	7 57 28.4	629.2581	0.5007852	Berberich.
8 7 5.8	6 17 37.4	5 28 22.7	1041.4193	0.3549207	Berberich.
242 2 9.3	1 35 16.8	3 29 25.0	935.125	0.386091	Berberich.
42 21 30.3	0 47 5.4	2 26 41.4	617.2655	0.5063564	Rodin.
142 45 15.3	4 52 38.1	3 42 13.9	787.7302	0.4357527	Berberich.
7 53 21.9	3 26 4.1	6 22 53.8	950.1028	0.3814907	Berberich.
345 6 47.2	6 55 28.9	4 6 42.7	644.21972	0.4939818	Millosevich.
158 53 56.4	15 47 16.1	12 49 46.2	952.9185	0.3806339	Berberich.
211 11 17.9	4 25 2.2	11 33 54.0	654.8993	0.4892213	Berberich.
141 43 35.3	7 15 13.9	8 40 35.6	980.0925	0.372493	Millosevich.
101 43 34.0	6 6 42.4	8 16 29.7	715.9363	0.4634215	Knopf.
182 8 53.0	4 19 54.1	2 13 1.3	778.7887	0.4390579	Berberich.
358 7 59.8	3 56 18.3	5 1 56.0	831.679	0.420034	Berberich.
230 43 26.5	3 5 55.3	6 31 55.2	775.6563	0.440225	Berberich.
81 17 5.0	3 15 38.0	0 58 32.8	721.5158	0.4611738	Berberich.
7 40 39.7	9 5 3.2	9 13 39.5	765.2695	0.4441281	P. V. Neugebauer.
176 40 23.5	11 36 14.2	10 27 16.0	969.4022	0.3756684	Berberich.
171 17 15.6	12 32 21.5	10 26 41.1	634.7188	0.4982835	Berberich.
161 22 12.5	2 24 30.8	9 40 17.9	1057.2646	0.3505486	Bohlin.
124 39 7.9	2 18 33.4	7 57 58.6	627.7382	0.501485	Berberich.
150 50 32.5	1 45 18.0	4 50 38.8	1025.9378	0.3592571	Berberich.
162 49 53.4	10 33 32.6	3 35 37.4	616.07949	0.506913	Mader.
189 5 22.4	10 44 15.4	12 15 56.9	563.9420	0.5325148	Berberich.
221 12 36.2	9 19 16.0	6 41 30.5	678.726	0.478875	Berberich.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
321 Florentina . .	Aug. 30	13.2	13.2	9.5	1903 Febr. 18.0	1910.0	72° 54′ 39.7″	34° 0′ 40.1″
322 Phaeo	Dez. 43	12.4	12.3	8.8	1905 Nov. 14.0	1910.0	38 46 38.3	111 32 54.5
323 Brucia	—	—	13.0	11.0	1892 Jan. 1.5	1891.0	43 0 42	292 17 48
324 Bamberga . .	März 16	11.4	9.9	6.6	1906 April 3.0	1910.0	195 13 6.8	40 19 30.5
325 Heidelberga .	April 20	13.0	12.4	8.1	1906 Aug. 1.0	1910.0	270 22 12.3	74 39 7.7
326 Tamara	Juni 18	10.0	11.1	8.7	1892 März 20.0	1910.0	298 49 14.0	236 57 34.2
327 Columbia . . .	Febr. 15	13.3	13.0	9.5	1905 Febr. 7.0	1910.0	181 23 55.4	300 41 58.1
328 Gudrun	Juli 13	12.9	12.3	8.2	1906 Okt. 20.0	1910.0	309 12 45.4	102 25 47.4
329 Svea	—	—	12.1	9.3	1901 Aug. 27.0	1910.0	120 9 24.9	38 30 56.3
330 Adalberta . .	—	—	13.5	11.7	1892 März 20.5	1892.0	181 3 42	— — —
331 Etheridgea . .	Nov. 26	12.2	12.5	8.5	1907 Febr. 17.0	1910.0	158 33 59.1	333 35 38.5
332 Siri	Febr. 5	13.0	12.6	9.1	1906 März 14.0	1910.0	223 56 59.9	293 37 55.7
333 Badenia . . .	—	—	12.7	8.6	1907 April 18.0	1910.0	215 17 59.6	14 14 18.9
334 Chicago	—	—	12.0	6.8	1908 Sept. 19.0	1910.0	356 5 54.5	240 27 12.1
335 Roberta	Febr. 3	12.4	11.6	8.8	1906 Febr. 2.0	1910.0	205 28 47.7	140 50 43.9
336 Lacadiera . . .	—	—	11.8	9.6	1902 Juni 23.0	1910.0	49 57 10.9	28 49 41.1
337 Devosa	Aug. 17	11.8	11.4	8.8	1901 Jan. 19.0	1910.0	27 7 6.0	95 40 16.9
338 Budrosa . . .	April 10	12.2	12.1	8.4	1899 Jan. 9.0	1910.0	72 15 37.1	106 31 3.0
339 Dorothea . . .	Jan. 19	13.2	12.8	8.8	1906 April 23.0	1910.0	246 3 47.7	155 59 18.6
340 Eduarda . . .	Sept. 8	12.7	12.9	9.5	1906 Nov. 9.0	1910.0	346 36 56.4	39 58 16.1
341 California . . .	Jan. 14	14.0	13.1	11.0	1907 Jan. 28.0	1910.0	172 9 40.7	291 20 59.2
342 Endymion . .	Jan. 18	12.1	12.8	9.8	1906 Febr. 2.0	1910.0	33 2 34.6	221 45 48.4
343 Ostara	Juli 31	13.4	13.5	10.9	1906 Juni 2.0	1910.0	230 17 35.4	7 5 53.9
344 Desiderata . .	—	—	11.7	8.5	1907 März 9.0	1910.0	236 59 21.3	233 57 8.8
345 Tercidina . . .	Dez. 23	10.9	11.2	8.8	1906 Okt. 20.0	1910.0	304 42 30.8	229 3 10.0
346 Hermentaria .	Aug. 25	11.1	11.5	8.0	1899 März 10.0	1910.0	156 0 38.3	287 6 50.9
347 Pariana	—	—	12.0	8.8	1906 Jan. 13.5	1910.0	309 39 11.0	83 32 9.5
348 May	Mai 3	13.1	12.9	9.1	1895 Mai 10.0	1910.0	143 12 22.8	4 58 1.5
349 Dembowska .	Mai 16	10.1	9.8	6.0	1896 Aug. 12.0	1910.0	319 16 56.2	340 30 13.5
350 Ornamenta . .	Jan. 25	12.3	12.7	8.6	1907 Juli 7.0	1910.0	240 6 7.0	331 59 51.1
351 Yrsa	Nov. 4	12.1	12.2	8.8	1907 Jan. 28.0	1910.0	354 50 4.6	27 13 3.4
352 Gisela	April 22	12.9	12.1	10.0	1904 Juni 12.0	1910.0	255 25 57.5	142 27 24.3
353 Ruperto-Carola	—	—	14.2	10.9	1893 Febr. 22.5	1910.0	44 0 13.0	317 41 4.5
354 Eleonora . . .	Nov. 6	10.2	10.0	6.5	1901 Dez. 5.0	1910.0	303 30 35.7	3 34 23.7
355 Gabriella . . .	Mai 2	13.4	13.1	10.1	1905 Jan. 2.5	1910.0	12 25 36.0	94 32 55.4
356 Liguria	Dez. 11	9.4	11.0	7.6	1907 Febr. 17.0	1910.0	64 49 7.3	74 23 55.2
357 Ninina	März 7	12.3	12.2	8.0	1907 Sept. 18.5	1910.0	340 46 14.9	242 29 42.0
358 Apollonia . . .	Aug. 31	12.2	12.5	8.8	1893 März 10.5	1910.0	86 52 43.5	248 18 56.9
359 Georgia	—	—	12.3	8.9	1902 Mai 2.5	1910.0	203 0 32.1	336 37 38.1
360 Carlova	Juni 8	12.7	11.9	8.0	1908 Jan. 3.0	1910.0	33 4 5.4	286 54 56.0

☊	i	φ	μ	Log. a	Autorität
40° 47′ 5.0″	2° 36′ 56.6″	2° 39′ 3.1″	723.″6554	0.4603165	Berberich.
253 56 18.3	7 59 8.1	14 15 14.3	763.9060	0.4446445	Berberich.
97 2 30	19 20 54	15 57 36	1119.60	0.333960	Berberich.
329 8 36.3	11 18 40.9	19 47 42.6	807.8079	0.4284657	Berberich.
345 21 18.6	8 33 40.7	9 8 49.5	616.9272	0.5065151	Berberich.
32 9 9.7	23 47 22.4	10 48 17.5	1005.7638	0.365007	Bidschof.
355 39 44.3	7 9 11.2	3 41 18.3	766.8777	0.4435203	Berberich.
353 15 29.5	16 7 1.7	7 2 42.8	649.8767	0.4914504	Berberich.
178 28 13.5	16 0 36.7	1 35 42.6	912.1349	0.3932983	Pannekoek.
358 46 36	19 58 36	— — —	1174.9	0.32000	Berberich.
22 52 28.7	6 4 30.0	5 58 43.0	675.6718	0.4801805	Berberich.
32 3 7.2	2 52 35.7	5 10 38.7	768.7492	0.4428147	Berberich.
355 22 47.1	3 50 23.7	10 5 3.7	644.6123	0.4938053	Berberich.
134 20 51 2	4 37 53.7	0 54 49.6	458.6230	0.5923672	Berberich.
147 55 31.6	5 5 49.9	10 22 10.8	912.6621	0.3931311	Berberich.
235 1 13.3	5 38 30.7	5 28 48.1	1049.8478	0.3525869	Berberich.
355 41 19.0	7 51 56.4	7 57 52.0	964.4421	0.3771536	Coniel.
288 39 56.0	6 2 41.2	1 12 38.1	713.531	0.464396	Coniel.
174 26 7.4	9 53 59.7	5 49 6.3	679.2158	0.4786658	Berberich.
27 35 29.8	4 42 11.5	6 46 57.8	779.9016	0.4386445	Berberich.
29 3 57.0	5 40 1.7	11 8 39.8	1087.7152	0.3423276	Berberich.
233 0 11.1	7 20 46.9	7 22 8.5	862.0140	0.4096615	Berberich.
38 42 17.6	3 18 13.3	13 23 25.7	947.4192	0.3823097	Berberich.
49 0 25.8	18 36 32.9	18 20 50.5	850.5213	0.4135476	Berberich.
212 31 31.0	9 44 20.7	3 30 29.0	1000.9051	0.3664092	Viaro.
92 32 7.0	8 45 21.1	5 47 46.6	758.53251	0.446688	Ehrenfeucht.
85 52 47.9	11 42 41.9	9 21 56.3	838.0358	0.4178294	Boccardi.
90 45 49.6	9 45 30.5	3 49 50.1	693.6375	0.472584	P. V. Neugebauer.
33 13 11.3	8 17 24.6	5 8 39.7	709.2917	0.466122	P. V. Neugebauer.
90 39 23.5	24 44 31.8	8 44 29.1	643.0948	0.4944877	Berberich.
99 40 26.2	9 13 56.4	8 52 21.2	770.7562	0.4420597	Berberich.
247 18 51.6	3 22 0.5	8 36 26.8	1091.9690	0.3411975	Berberich.
103 23 14.9	5 34 36.4	19 15 26.7	787.080	0.435992	Berberich.
140 49 23.3	18 22 24.1	6 35 44.4	754.8010	0.4481160	Ciscato.
352 19 52.4	4 21 6.4	6 12 55.9	877.280	0.404580	Berberich.
356 14 1.3	8 16 5.4	14 2 9.4	776.2821	0.4399913	Berberich.
138 47 50.5	15 6 50.1	4 5 44.9	634.456	0.498404	P. V. Neugebauer.
173 8 14.8	3 31 44.7	8 26 24.1	725.563	0.459554	Coniel.
6 41 13.1	6 48 31.7	8 58 30.9	787.647	0.435783	Berberich.
133 23 12.5	11 39 55.5	10 20 45.1	682.0180	0.4774739	Berberich.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
361 Bononia . .	Mai 9	13.9	13.3	8.0	1906 Okt. 20.0	1910.0	315° 0′ 55.4″	75° 44′ 20.7″
362 Havnia . . .	Mai 5	11.3	11.1	8.0	1905 Febr. 7.0	1910.0	72 40 34.9	29 11 6.7
363 Padua . . .	—	—	11.6	8.2	1902 Febr. 23.0	1910.0	150 10 39.9	293 18 1.4
364 Isara	Mai 11	12.5	11.7	9.5	1906 Febr. 2.0	1910.0	64 52 29.0	311 1 48.7
365 Corduba . .	Dez. 45	12.0	12.2	8.7	1904 Juli 22.0	1910.0	285 5 51.5	209 40 43.5
366 Vincentina .	April 15	12.4	12.3	8.2	1904 März 24.0	1910.0	241 10 18.0	314 58 42.8
367 Amicitia . .	Juli 27	13.0	12.5	10.3	1906 März 28.5	1910.0	52 40 0.0	53 16 37.5
368 Haidea . . .	Sept. 28	12.7	13.5	9.5	1893 Juli 17.5	1910.0	317 18 49.4	85 6 56.3
369 Aëria	Mai 24	12.9	12.7	9.5	1906 Juli 12.0	1910.0	287 6 32.8	266 17 7.5
370 Modestia . .	April 14	13.3	12.8	10.4	1907 Juli 7.0	1910.0	294 33 33.7	66 1 12.1
371 Bohemia . .	März 17	11.7	11.8	8.4	1903 Nov. 5.0	1910.0	134 40 33.2	338 44 39.2
372 Palma . . .	Sept. 19	9.9	10.5	6.4	1905 Dez. 4.0	1910.0	2 21 33.6	113 11 50.6
373 Melusina . .	Nov. 12	12.3	12.8	8.7	1907 März 9.0	1910.0	165 50 25.5	347 42 45.3
374 Burgundia .	April 2	11.3	11.7	8.2	1906 Juni 2.0	1910.0	20 43 28.8	22 6 54.0
375 Ursula . . .	Nov. 21	11.1	11.0	6.9	1901 Jan. 19.0	1910.0	155 15 7.8	344 31 25.5
376 Geometria .	Aug. 13	11.1	11.8	9.4	1904 Nov. 19.0	1910.0	171 38 36.4	314 16 28.2
377 Campania .	Juli 26	11.6	11.5	8.2	1893 Okt. 7.5	1910.0	338 6 43.1	192 39 34.1
378 Holmia . . .	Juni 3	13.0	12.6	9.1	1906 Aug. 21.0	1910.0	301 48 59.4	153 47 51.8
379 Huenna . . .	—	—	12.6	8.5	1901 April 9.0	1910.0	210 5 22.9	177 18 16.1
380 Fiducia . . .	Nov. 24	12.5	12.6	9.3	1894 Jan. 11.0	1910.0	129 58 51.0	237 3 32.6
381 Myrrha . . .	—	—	12.4	8.1	1906 März 14.0	1910.0	266 28 42.8	142 59 18.2
382 Dodona . . .	—	—	12.1	8.1	1906 Mai 13.0	1910.0	9 20 17.0	267 5 53.6
383 Janina . . .	—	—	13.3	9.2	1908 Aug. 30.0	1910.0	290 32 49.4	313 43 28.9
384 Burdigala . .	Dez. 33	10.9	11.7	8.5	1899 April 9.5	1910.0	119 46 59.6	30 33 43.4
385 Ilmatar . . .	Aug. 22	10.9	10.3	6.7	1904 Mai 3.0	1910.0	38 31 8.7	184 18 24.2
386 Siegena . . .	Mai 28	11.2	10.5	6.8	1906 Aug. 21.0	1910.0	317 54 55.1	217 39 48.2
387 Aquitania .	Dez. 10	10.8	9.8	6.4	1895 Juli 3.5	1910.0	353 6 10.2	153 33 34.9
388 Charybdis .	März 27	11.9	11.7	7.8	1906 Juli 12.0	1910.0	338 15 19.8	322 41 28.4
389 Industria . .	—	—	11.1	8.0	1899 Juni 18.0	1910.0	63 27 27.4	262 50 16.2
390 Alma	Dez. 38	12.5	13.2	10.0	1899 Mai 17.0	1910.0	88 15 19.6	188 31 9.3
391 Ingeborg . .	Febr. 19	14.7	13.2	10.8	1906 Jan. 13.0	1910.0	82 56 37.0	145 9 23.8
392 Wilhelmina .	—	—	12.2	8.3	1894 Nov. 4.5	1910.0	38 39 10.1	141 27 52.4
393 Lampetia . .	Jan. 12	12.6	11.0	7.6	1904 Dez. 9.0	1910.0	130 40 16.4	86 49 15.1
394 Arduina . .	Febr. 16	14.2	13.0	9.6	1894 Nov. 23.5	1910.0	55 25 12.3	265 38 37.7
395 Delia	Febr. 13	13.4	13.0	9.5	1894 Dez. 3.5	1910.0	136 43 41.3	20 38 45.7
396 Aeolia . . .	—	—	13.2	9.7	1894 Dez. 2.5	1910.0	156 42 32.8	18 37 12.4
397 Vienna . . .	Juni 2	12.8	12.6	9.4	1902 Aug. 2.0	1910.0	334 42 30.6	136 13 17.5
398 Admete . . .	Mai 25	14.8	13.7	10.4	1907 Nov. 4.5	1910.0	317 29 32.7	156 33 37.6
399 Persephone .	—	—	13.0	9.0	1907 Juli 7.0	1910.0	99 59 2.0	187 2 29.5
400 Ducrosa . .	—	—	14.5	10.4	1895 März 18.5	1910.0	337 44 19.1	229 27 12.8

☊	i	φ	μ	Log. a	Autorität
19° 36′ 14″.1	12° 36′ 57″.4	11° 31′ 54″.9	451″.1434	0.5971280	Berberich.
27 23 27.4	8 4 45.0	2 31 4.1	857.1587	0.4112969	Berberich.
65 8 10.2	5 58 1.3	4 3 32.9	778.9495	0.438998	Antoniazzi.
105 12 52.6	6 0 3.6	8 36 53.9	1072.5804	0.3463845	Berberich.
185 54 15.1	12 43 37.8	8 24 38.7	754.5331	0.448218	Berberich.
347 59 13.4	10 35 26.9	3 27 2.7	636.2125	0.4976029	Berberich.
83 7 23.4	2 57 0.7	5 28 31.2	1072.8626	0.3463083	Berberich.
230 7 47.4	7 48 12.9	11 8 13.1	663.984	0.485231	Berberich.
94 30 31.4	12 43 17.6	5 33 23.3	822.7067	0.4231744	Berberich.
290 58 8.9	7 52 10.3	5 13 41.6	1001.1919	0.3663261	Berberich.
284 12 33.9	7 22 40.8	3 35 43.7	788.36429	0.435520	Mader.
328 25 22.6	23 39 56.7	15 37 36.8	635.9909	0.4977038	Berberich.
4 26 22.4	15 27 4.2	8 34 43.1	646.5817	0.4929222	Berberich.
219 35 36.2	8 57 56.2	4 37 44.9	765.5599	0.4440183	Berberich.
337 27 33.3	15 57 18.0	5 41 17.0	640.8169	0.4955151	Heuer.
302 13 7.9	5 25 21.7	9 54 46.1	1025.0162	0.3595172	Berberich.
210 44 55.0	6 39 37.8	4 26 14.5	804.920	0.429503	Coniel.
233 14 43.6	6 57 56.3	7 20 19.7	766.5723	0.4436357	Berberich.
172 51 58.2	1 36 30.6	11 5 26.6	641.8494	0.4950490	Coniel.
95 22 51.6	6 10 16.7	6 33 30.2	809.782	0.427760	P. V. Neugebauer.
125 23 34.0	12 34 45.8	7 15 16.3	620.6242	0.5047852	Berberich.
315 49 0.2	7 26 3.1	10 9 28.8	645.0171	0.4936236	Berberich.
93 25 27.3	2 39 13.5	9 59 26.2	638.8727	0.4963949	Berberich.
48 21 10.9	5 38 57.3	8 22 34.3	820.6462	0.423900	Kromm.
345 47 13.2	13 41 2.2	7 30 49.9	739.9493	0.4538697	Witt.
167 7 26.1	20 15 35.6	9 34 42.5	719.3456	0.4620460	Berberich.
128 46 8.2	17 57 51.9	13 47 16.3	782.6076	0.4376414	Ogburn.
355 28 53.3	6 28 59.6	3 28 2.8	680.7507	0.4780123	Berberich.
282 46 45.1	8 7 8.8	3 53 14.7	842.4772	0.416299	Peyra.
305 34 11.1	12 8 55.9	7 28 40.3	821.022	0.423768	Coniel.
212 42 11.7	23 2 49.0	18 0 7.6	1004.2640	0.3654391	Berberich.
211 52 31.8	15 42 21.3	10 13 36.9	694.356	0.472283	Berberich.
214 28 57.3	14 54 43.5	19 14 19.0	766.9701	0.4434854	Berberich.
68 21 10.6	6 15 39.4	13 11 32.3	771.095	0.441933	Coniel.
260 2 6.3	3 31 42.0	7 16 9.6	764.391	0.444461	Capon.
251 27 25.2	2 37 50.3	10 18 30.4	782.986	0.437501	Coniel.
228 32 12.0	12 43 25.8	14 22 11.1	829.3549	0.420844	Mader.
280 38 14.2	9 29 36.6	12 49 55.4	782.8137	0.4375654	Franz.
347 18 20.6	13 10 0.0	4 6 33.0	665.0959	0.4847482	Berberich.
328 49 40.9	10 36 55.7	5 15 50.9	641.871	0.495039	Berberich.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
401 Ottilia	Okt. 18	12.9	12.6	8.2	1905 Dez. 24.0	1910.0	220° 5′ 45.6″	197° 2′ 51.2″
402 Chloë	—	—	10.7	7.7	1895 März 27.5	1910.0	28 44 8.7	12 26 25.6
403 Cyane . . .	Aug. 3	12.6	12.0	8.5	1905 Juli 17.0	1910.0	153 9 6.5	247 54 30.1
404 Arsinoë . . .	—	—	13.0	10.0	1905 Nov. 14.0	1910.0	214 53 8.0	118 51 5.8
405 Thia	—	—	11.0	8.0	1895 Juli 27.0	1910.0	73 36 35.0	305 12 7.9
406 Erna	Sept. 4	12.4	13.5	9.8	1905 Aug. 31.5	1910.0	352 15 46.2	34 30 49.2
407 Arachne . .	März 5	12.2	11.9	8.7	1907 Juli 27.0	1910.0	290 1 11.0	78 11 36.7
408 Fama	Mai 17	14.0	13.4	9.2	1895 Okt. 15.5	1910.0	354 28 32.9	100 36 33.0
409 Aspasia . . .	Juni 9	10.2	10.7	7.6	1903 Okt. 19.5	1910.0	163 47 0.0	351 8 7.6
410 Chloris . . .	Febr. 9	12.4	11.9	8.5	1906 April 17.5	1910.0	311 22 7.1	168 47 7.0
411 Xanthe . . .	Dez. 34	13.1	12.5	8.7	1906 Jan. 24.5	1910.0	185 43 46.2	174 42 24.4
412 Elisabetha .	Jan. 27	11.9	11.9	8.5	1904 Dez. 29.0	1910.0	252 59 27.0	92 48 23.5
413 Edburga . .	April 21	13.6	12.2	9.2	1896 Jan. 10.5	1910.0	72 21 21.0	248 52 42.0
414 Liriope . . .	März 26	13.6	13.4	8.6	1898 April 24.0	1910.0	184 57 33.5	299 54 3.1
415 Palatia . . .	Febr. 22	11.1	11.6	8.1	1900 Jan. 0.0	1910.0	351 8 15.5	293 39 15.0
416 Vaticana . .	April 28	10.3	11.5	8.0	1902 Okt. 21.5	1910.0	114 14 16.4	195 25 17.1
417 Suevia . . .	April 28	12.0	12.7	9.2	1907 Sept. 25.0	1910.0	186 5 50.0	343 18 38.4
418 Alemannia .	—	—	12.6	9.5	1905 Dez. 24.0	1910.0	60 41 21.9	123 1 58.9
419 Aurelia . . .	Dez. 37	12.3	11.1	8.0	1907 Jan. 28.0	1910.0	225 26 32.6	40 16 21.9
420 Bertholda . .	Dez. 14	12.1	12.3	7.7	1904 Dez. 29.0	1910.0	359 57 43.4	216 25 36.5
421 Zähringia . .	Febr. 26	14.8	14.2	11.2	1904 Mai 23.0	1910.0	299 14 47.2	205 57 54.3
422 Berolina . .	—	—	13.4	11.2	1896 Dez. 4.5	1910.0	43 3 30.9	333 4 23.2
423 Diotima . . .	Mai 14	11.0	11.2	7.2	1906 Sept. 30.0	1910.0	87 12 6.0	193 49 7.3
424 Gratia . . .	—	—	12.8	9.3	1903 Mai 29.0	1910.0	174 2 31.1	329 36 33.8
425 Cornelia . .	Nov. 7	13.3	13.1	9.4	1897 Jan. 20.5	1910.0	295 5 56.3	118 48 56.6
426 Hippo	März 12	11.0	11.5	7.8	1897 Sept. 30.0	1910.0	172 10 55.2	221 45 45.3
427 Galene . . .	Jan. 23	13.5	12.8	9.0	1905 Jan. 14.5	1910.0	184 20 0.0	5 55 16.4
428 Monachia . .	Mai 23	14.3	13.5	11.1	1900 Aug. 7.5	1910.0	300 39 10.6	13 51 45.2
429 Lotis	Dez. 34	12.3	12.6	9.4	1905 Sept. 22.5	1910.0	331 42 21.7	166 36 34.0
430 Hybris . .	Juni 29	14.1	13.2	9.6	1898 Jan. 21.5	1910.0	15 12 12.0	174 56 25.2
431 Nephele . . .	Febr. 1	13.5	12.6	8.5	1906 Mai 29.5	1910.0	279 57 55.7	209 48 3.8
432 Pythia . . .	April 16	10.8	11.3	8.7	1906 Febr. 2.0	1910.0	258 54 29.7	172 15 56.3
433 Eros	Mai 23	10.5	9.7	10.6	1907 Okt. 15.0	1910.0	285 40 28.0	177 46 3.8
434 Hungaria . .	—	—	11.8	10.4	1908 März 3.0	1910.0	226 7 44.9	123 1 51.3
435 Ella	Dez. 12	11.9	12.1	9.3	1906 Nov. 9.0	1910.0	44 18 22.6	331 7 16.6
436 Patricia . . .	Nov. 8	12.6	12.9	8.7	1906 Febr. 2.0	1910.0	90 41 57.0	23 21 16.1
437 Rhodia . . .	Dez. 37	13.6	12.7	10.1	1906 Nov. 9.0	1910.0	77 29 16.7	59 5 58.1
438 Zeuxo	Okt. 15	13.5	11.8	8.8	1902 Nov. 23.5	1910.0	149 12 37.6	200 28 41.2
439 Ohio	Dez. 33	12.5	12.7	8.6	1900 Jan. 0.0	1910.0	30 57 55.5	231 8 28.0
440 Theodora . .	Mai 10	12.8	13.1	10.9	1898 Okt. 18.5	1910.0	284 37 41.8	176 6 6.1

☊	i	φ	μ	Log. a	Autorität
38° 59′ 4″.6	6° 5′ 47″.1	2° 40′ 12″.6	583″.3070	0.5227396	Berberich.
129 42 3.3	11 50 5.2	6 24 49.0	868.759	0.407405	Coniel.
245 49 39.0	9 8 8.8	5 49 4.3	753.7444	0.4485217	Berberich.
92 48 21.3	14 3 57.8	11 41 13.6	849.07766	0.4140395	Berberich.
256 8 35.2	11 48 17.6	14 32 24.7	856.814	0.411412	Coniel.
317 9 4.5	4 14 56.5	10 10 53.0	710.727	0.465535	Berberich.
295 5 4.9	7 31 34.3	3 59 22.5	834.1108	0.4191886	Berberich.
299 37 51.7	9 6 14.2	7 54 31.1	627.210	0.501729	Berberich.
242 44 32.8	11 12 44.4	3 53 20.9	857.3857	0.411221	Kromm.
97 25 39.4	10 53 15.3	13 45 44.0	788.824	0.435346	P. V. Neugebauer
108 9 35.1	15 36 26.1	6 53 35.1	705.017	0.467871	Berberich.
106 41 22.8	13 45 36.1	2 27 5.2	772.8598	0.4412713	Berberich.
105 12 38.6	18 52 24.9	19 43 23.0	856.555	0.411501	Berberich.
113 29 44.5	9 38 22.8	5 29 23.8	540.7539	0.544671	Berberich.
128 20 25.3	8 5 38.4	17 36 27.4	762.3720	0.445227	Coddington.
58 38 36.6	12 55 45.4	12 35 49.6	761.6611	0.4454966	Boccardi.
199 56 31.4	6 35 47.5	8 5 25.9	759.1427	0.4464555	Berberich.
249 11 17.0	6 49 0.3	6 49 13.7	850.3282	0.4136133	Berberich.
230 13 39.6	3 57 7.7	14 49 58.8	849.6718	0.4138369	Berberich.
246 23 45.1	6 37 27.3	2 31 41.4	563.6312	0.5326744	Berberich.
188 3 30.6	7 51 32.7	17 0 44.2	879.0133	0.404008	Berberich.
9 0 42.8	5 0 17.4	12 22 39.2	1066.4426	0.348046	Witt.
70 19 25.1	11 15 54.4	1 57 21.5	660.6148	0.4867056	Berberich.
99 33 41.2	8 12 20.8	6 22 47.8	768.5707	0.442882	P. V. Neugebauer.
61 44 9.2	4 4 24.3	3 26 47.8	724.2913	0.460062	Pourteau.
312 6 53.5	19 37 42.9	5 53 54.4	722.4562	0.460797	Pourteau.
298 57 20.1	5 8 14.6	6 53 23.4	693.666	0.4725708	Berberich.
17 29 37.6	6 13 32.7	10 15 44.4	1009.005	0.364076	Villiger.
220 16 20.5	9 30 55.5	7 5 38.8	842.413	0.416321	Berberich.
250 0 10.6	14 33 20.9	14 55 51.9	743.475	0.452494	Berberich.
117 1 48.2	1 49 14.5	10 30 56.1	642.247	0.494870	Kreutz.
88 37 32.4	12 7 37.7	8 24 45.4	973.3410	0.3744944	Berberich.
303 37 3.5	10 49 41.2	12 52 58.8	2015.0581	0.1638127	Witt.
174 44 5.3	22 30 11.2	4 13 50.9	1308.6711	0.2887841	Berberich.
23 9 37.1	1 50 18.7	8 53 54.8	925.2776	0.3891563	Berberich.
352 3 5.4	18 36 7.8	4 45 46.3	622.0996	0.5040978	Berberich.
263 43 57.1	7 22 52.2	14 16 23.4	962.0481	0.3778732	Berberich.
49 27 2.4	7 14 50.7	2 57 7.6	869.450	0.407174	P. V. Neugebauer.
202 36 22.0	19 7 7.5	4 11 33.9	640.6167	0.495606	Coddington.
292 31 23.3	1 35 48.6	6 11 19.0	1079.355	0.344562	Coddington.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
441 Bathilde . . .	Mai 17	12.7	12.5	9.0	1898 Dez. 14.0	1910.0	345° 51′ 15.″9	197° 38′ 38.″4
442 Eichsfeldia . .	März 24	11.8	12.1	9.6	1904 Sept. 20.0	1900.0	137 33 29.2	82 6 9.8
443 Photographica	Aug. 22	12.6	12.5	10.2	1906 April 3.0	1910.0	46 36 26.5	347 54 29.7
444 Gyptis	Nov. 9	10.5	11.2	7.7	1903 Jan. 1.5	1910.0	149 27 0.8	151 50 26.2
445 Edna	Aug. 15	11.6	12.6	8.4	1900 Jan. 0.0	1910.0	19 1 55.0	77 37 38.4
446 Aeternitas . .	—	—	11.4	7.9	1899 Okt. 30.0	1910.0	55 26 20.6	277 33 39.1
447 Valentine . .	Dez. 23	12.0	12.1	8.2	1904 Okt. 10.0	1910.0	345 51 50.7	316 23 5.9
448 Natalie	Okt. 7	12.6	13.4	9.3	1899 Nov. 29.5	1910.0	47 48 18.5	292 17 12.2
449 Hamburga . .	Juli 2	12.7	12.0	9.0	1901 März 20.0	1910.0	38 7 28.0	44 40 10.3
450 Brigitta . . .	Dez. 19	13.1	13.2	9.3	1899 Nov. 9.5	1910.0	19 17 44.8	358 38 58.0
451 Patientia . . .	Dez. 30	10.3	10.6	6.6	1907 Mai 8.0	1910.0	146 4 45.4	332 26 55.3
452 Hamiltonia .	—	—	16.7	13.1	1899 Dez. 31.0	1910.0	296 42 7.9	46 40 54.3
453 Tea	April 13	11.6	12.3	10.2	1902 Dez. 20.0	1910.0	243 0 28.6	217 47 49.9
454 Mathesis . . .	Okt. 1	12.2	11.6	8.5	1900 April 28.5	1910.0	352 56 10.1	174 34 18.7
455 Bruchsalia . .	Dez. 38	11.9	11.6	8.3	1907 Febr. 17.0	1910.0	124 26 46.8	269 25 10.9
456 Abnoba . . .	Aug. 31	13.1	12.9	9.4	1906 Nov. 9.0	1910.0	154 20 18.2	2 50 8.1
457 Alleghenia . .	Juni 19	15.2	15.1	11.0	1900 Okt. 28.5	1910.0	351 0 33.8	129 8 9.7
458 Hercynia . .	Aug. 13	13.5	13.1	9.1	1900 Okt. 31.0	1910.0	338 37 5.7	272 19 18.5
459 Signie	Jan. 21	13.1	13.7	10.5	1900 Okt. 22.5	1910.0	348 14 27.2	17 55 45.7
460 Scana	—	—	13.9	10.5	1900 Okt. 22.5	1910.0	14 38 31.6	163 33 0.4
461 Saskia	Juli 19	15.2	14.3	10.1	1900 Okt. 22.5	1910.0	310 1 24.7	301 28 37.0
462 Eriphyla . . .	Nov. 21	13.1	13.5	9.7	1902 Jan. 14.0	1910.0	119 30 21.2	248 37 32.6
463 Lola	—	—	14.0	11.4	1900 Okt. 31.5	1910.0	19 49 32.2	325 32 26.0
464 Megaira . . .	—	—	12.2	8.6	1901 Jan. 9.5	1910.0	92 54 0.7	252 34 33.5
465 Alekto	Nov. 9	14.6	13.5	9.3	1901 Jan. 23.5	1910.0	293 53 59.6	272 32 36.6
466 Tisiphone . .	Aug. 24	14.0	11.8	7.3	1901 Jan. 23.5	1910.0	294 33 1.3	263 9 0.3
467 Laura	Dez. 42	13.9	14.3	10.5	1901 Febr. 11.5	1910.0	55 52 57.2	91 48 52.6
468 Lina	Okt. 23	12.1	13.1	9.0	1901 Febr. 22.5	1910.0	118 51 21.4	331 2 19.6
469 Argentina . .	Okt. 23	13.3	12.7	8.5	1907 April 24.5	1907.0	7 31 23.1	201 23 58.5
470 Kilia	Nov. 17	12.3	12.9	10.3	1902 Okt. 21.0	1910.0	138 56 9.4	43 50 53.3
471 Papagena . .	April 29	11.0	10.1	6.2	1901 Mai 18.5	1910.0	240 50 24.4	311 1 39.0
472 Roma	Nov. 18	10.8	11.5	8.5	1908 März 23.0	1910.0	115 27 18.6	295 11 15.8
473 Nolli	—	—	13.3	9.5	1901 Febr. 13.5	1910.0	95 13 40.1	57 6 40.8
474 Prudentia . .	—	—	13.0	10.2	1901 März 13.5	1910.0	223 19 18.1	142 45 18.1
475 Ocllo	Dez. 24	13.5	13.5	10.2	1905 Juni 17.0	1910.0	317 7 14	301 29 56
476 Hedwig . . .	Okt. 12	11.4	11.3	8.1	1902 Dez. 10.0	1910.0	156 21 50.5	356 54 43.2
477 Italia	—	—	12.1	9.5	1905 Nov. 3.5	1910.0	45 50 41.6	320 20 13.9
478 Tergeste . . .	Juni 13	11.3	10.9	7.0	1904 Mai 5.0	1910.0	81 38 55.7	240 34 25.2
479 Caprera . . .	Nov. 12	11.6	13.0	9.6	1901 Nov. 15.5	1910.0	2 12 53.0	269 14 42.9
480 Hansa	Juli 15	11.7	11.5	8.3	1901 Mai 21.5	1910.0	179 11 11.8	196 39 14.2

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
254 20 3.7	8 7 11.7	4 37 18.6	753.698	0.448538	Coniel.
134 38 45.4	6 3 42.0	4 0 17.7	987.3699	0.3703512	Thraen.
175 8 46.6	4 13 15.5	2 17 26.1	1075.9086	0.3454875	Thraen.
196 16 48.3	10 12 42.1	9 58 5.9	768.449	0.442928	Fabry.
293 31 41.4	21 23 34.9	11 57 45.5	624.2829	0.503084	Coddington.
42 40 49.5	10 39 3.8	7 7 3.2	761.5980	0.4455205	Pauly.
72 27 11.5	4 49 5.6	2 40 14.9	686.5435	0.475559	Kreutz.
38 52 17.9	12 41 52.5	9 54 2.5	636.068	0.497668	Berberich.
85 58 49.8	3 6 4.6	10 3 32.4	870.9880	0.406664	J. Möller.
15 37 54.5	10 23 9.4	5 21 56.4	677.749	0.479292	Paetsch.
89 51 4.6	15 14 39.9	4 19 46.7	662.60440	0.4858348	E. Grabowski.
92 51 38.8	3 13 15.1	1 13 23.3	736.622	0.455174	Palmer.
11 34 23.4	5 34 28.0	6 14 36.0	1099.965	0.339085	Hessen.
32 41 20.7	6 19 18.7	6 19 30.5	832.9439	0.419594	Milham.
77 26 56.4	12 1 45.3	16 59 20.2	818.8400	0.4245384	Berberich.
229 44 19.0	14 26 8.9	10 26 41.9	763.4835	0.4448046	Berberich.
250 46 42.0	12 52 29.5	10 20 2.3	651.8517	0.490572	Paetsch.
136 4 46.1	12 36 10.3	14 8 5.4	685.852	0.475851	Riem.
29 49 51.8	10 22 44.4	12 19 50.0	832.007	0.419920	Bauschinger.
205 45 2.7	4 35 26.1	5 53 49.8	791.305	0.434442	Bauschinger.
156 40 56.9	1 22 20.6	11 54 22.6	624.571	0.502950	Bauschinger.
105 51 10.2	3 10 27.9	4 45 25.7	727.9361	0.4586089	Berberich.
36 34 17.3	13 29 59.6	12 42 56.7	960.910	0.378216	Berberich.
103 51 32.4	10 51 46.9	14 39 57.7	742.582	0.452841	Berberich.
305 33 19.5	4 37 48.6	13 45 49.7	622.160	0.504070	Bauschinger.
291 49 53.9	19 16 2.2	4 45 26.8	576.785	0.525995	Berberich.
323 56 20.1	6 24 26.3	6 20 17.4	704.103	0.468247	Berberich.
22 26 55.3	0 29 45.3	11 47 14.8	637.306	0.497106	Bauschinger.
335 11 17.5	11 45 15.4	8 58 51.8	626.309	0.502146	Lamson.
173 15 58.1	7 13 35.5	5 29 58.5	952.3542	0.380805	Kreutz.
84 53 56.1	14 51 29.5	13 9 45.7	722.6458	0.4607207	Strömberg.
127 1 58.8	15 51 45.3	5 37 39.1	875.7359	0.405089	Zappa.
333 35 9.8	27 46 32.2	14 48 41.2	690.051	0.474084	Berberich.
162 55 11.4	7 32 22.0	8 27 23.1	916.700	0.391853	Berberich.
35 53 33	18 38 42	22 22 4	848.6730	0.414177	Strömgren.
286 41 44.8	10 56 39.3	4 16 2.1	823.2035	0.4229996	Strömgren.
10 44 48.5	5 18 41.0	10 57 18.2	944.572	0.383182	G. Abetti.
234 47 14.1	13 9 38.6	4 58 6.5	677.025	0.4796008	de Mello e Simas.
136 31 40.9	8 39 23.8	12 42 44.4	788.048	0.435636	Bauschinger.
237 12 44.8	21 4 48.4	2 25 49.4	826.814	0.421732	Bauschinger.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
481 Emita . . .	—	—	11.6	8.2	1907 März 9.0	1910.0	104° 59′ 56.″4	345° 50′ 34.″8
482 Petrina . . .	Dez. 5	12.5	12.0	8.1	1902 Mai 7.5	1910.0	288 7 6.3	85 31 11.3
483 Seppina . .	Juli 4	12.3	12.5	7.9	1906 Dez. 19.0	1910.0	127 58 51.7	141 39 57.0
484 Pittsburghia	Febr. 16	13.3	12.9	9.7	1906 April 3.0	1910.0	235 12 27.0	185 49 40.1
485 Genua . . .	—	—	11.4	8.0	1904 Okt. 3.5	1910.0	294 18 38.9	268 33 3.0
486 Cremona . .	Sept. 23	14.1	13.5	11.0	1902 Mai 28.5	1910.0	16 33 54.5	125 7 57.5
487 Venetia . .	Mai 16	12.3	11.8	8.6	1907 Okt. 15.5	1910.0	348 41 50.6	278 27 28.3
488 Kreusa . . .	Okt. 22	11.9	11.5	7.3	1906 Jan. 0.5	1910.0	302 39 32.2	62 35 51.0
489 Comacina .	—	—	12.5	8.3	1902 Sept. 2.5	1910.0	139 29 9.0	28 29 52.4
490 Veritas . . .	Jan. 13	12.4	12.3	8.1	1902 Sept. 3.5	1910.0	348 28 27.2	187 46 6.0
491 Carina . . .	Jan. 10	12.5	12.5	8.3	1903 Jan. 0.0	1910.0	340 41 39.1	225 2 45.0
492 Gismonda .	Jan. 27	13.8	13.1	9.0	1902 Sept. 4.0	1910.0	12 56 28.0	287 27 2.1
493 Griseldis . .	—	—	14.5	10.4	1902 Sept. 7.5	1910.0	329 46 50.6	38 26 36.2
494 Virtus . . .	März 19	12.2	12.3	8.4	1902 Nov. 27.5	1910.0	144 15 51.5	209 9 31.0
495 Eulalia . . .	Dez. 19	12.0	12.5	9.7	1902 Nov. 21.5	1910.0	20 56 40.0	200 0 35.6
496 Gryphia . .	März 1	12.9	13.0	11.0	1902 Nov. 21.5	1910.0	331 47 44.7	240 34 28.4
497 Jva	April 19	14.7	13.5	9.9	1902 Nov. 4.5	1910.0	20 53 34.8	358 54 17.3
498 Tokio . . .	Juli 28	10.0	11.2	8.1	1904 März 14.0	1910.0	167 52 1.5	237 34 18.5
499 Venusia . .	—	—	13.0	7.7	1903 Jan. 31.5	1910.0	9 23 52.0	195 51 25.8
500 Selinur . . .	Nov. 7	11.4	12.0	8.9	1903 März 4.5	1910.0	99 39 4.6	71 48 18.3
501 Urhixidur .	April 2	13.6	13.0	8.8	1903 Jan. 19.5	1910.0	119 32 12.0	346 41 52.2
502 Sigune . . .	—	—	13.8	11.2	1907 Febr. 17.0	1910.0	2 59 40.1	16 59 22.3
503 Evelyn . . .	Sept. 18	12.6	12.3	9.0	1903 April 25.5	1910.0	33 37 22.7	38 7 0.1
504 Cora	April 14	13.6	12.7	9.3	1907 Sept. 25.0	1910.0	18 9 10.2	244 36 55.0
505 Cava	Mai 24	13.2	12.0	8.7	1907 Okt. 15.0	1910.0	321 50 49.2	333 59 2.7
506 Marion . . .	Juli 9	13.2	12.5	8.5	1903 Febr. 20.5	1910.0	46 27 14.1	144 59 20.9
507 Laodica . .	Mai 11	12.9	12.5	8.3	1903 Febr. 24.5	1910.0	104 44 50.4	94 33 57.4
508 Princetonia	Aug. 20	12.3	12.3	8.1	1903 April 25.5	1910.0	4 34 0.9	161 33 54.7
509 Iolanda . .	Sept. 20	11.0	11.5	7.5	1906 Jan. 28.5	1910.0	39 8 50.3	153 10 33.8
510 Mabella . .	Jan. 2	13.9	13.0	9.8	1903 Juli 18.5	1910.0	338 1 0.1	87 40 58.5
511 Davida . . .	Aug. 25	9.7	9.6	5.4	1903 Aug. 15.5	1910.0	182 32 43.8	329 19 55.8
512 Taurinensis	Dez. 20	12.3	12.5	10.5	1903 Juli 16.5	1910.0	310 15 34.2	246 49 13.6
513 Centesima .	—	—	12.3	8.4	1903 Okt. 24.5	1910.0	327 27 39.5	208 58 33.7
514 Armida . .	—	—	12.4	8.4	1906 Febr. 22.0	1910.0	136 47 7.0	106 3 52.0
515 Athalia . .	—	—	14.0	9.9	1903 Sept. 20.5	1910.0	317 8 30.0	288 44 14.8
516 Amherstia .	Jan. 21	11.0	11.0	7.7	1908 Nov. 18.5	1910.0	189 0 21.8	254 6 6.4
517 Edith	—	—	13.1	9.0	1903 Okt. 25.5	1910.0	339 41 33.4	125 52 36.5
518 Halawe . . .	April 20	13.6	13.4	10.5	1903 Okt. 20.5	1910.0	47 47 29.0	118 29 22.7
519 Sylvania . .	Febr. 28	12.9	12.0	8.5	1903 Okt. 26.5	1910.0	37 10 6.6	298 37 26.2
520 Franziska .	Febr. 4	13.8	13.9	10.0	1903 Okt. 27.5	1910.0	355 18 52.9	16 18 2.0

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
67 5 43.9	9 52 33.4	9 10 37.1	782.8688	0.437545	Osten.
180 20 8.8	14 27 21.8	5 18 49.8	683.838	0.476703	P. V. Neugebauer.
175 32 15.8	18 37 40.3	2 59 43.4	557.6847	0.535745	Paetsch.
127 26 45.0	12 29 12.2	3 23 42.7	813.1477	0.4265580	Berberich.
194 22 25.9	13 48 10.4	10 57 57.6	777.060	0.439700	P. V. Neugebauer.
94 11 26.5	11 6 47.3	9 20 22.6	977.329	0.373311	Berberich.
115 5 36.2	10 14 21.3	4 56 30.7	813.33738	0.4264906	Bianchi.
86 39 37.2	11 36 16.3	9 21 6.0	633.233	0.498962	Morgan.
167 37 5.1	13 24 57.5	3 47 16.7	634.671	0.498305	Berberich.
179 15 21.1	9 13 7.2	5 7 59.7	627.551	0.501572	Münch.
176 1 20.6	18 56 44.4	3 42 55.3	620.5529	0.504821	Lassen.
47 13 18.7	1 39 33.0	10 34 19.0	649.105	0.491795	Hessen.
358 41 15.8	15 25 42.0	9 17 51.5	641.417	0.495244	Berberich.
39 4 55.2	7 8 37.6	3 37 33.6	688.142	0.474886	G. Abetti.
186 27 59.0	2 14 13.1	8 28 23.6	910.120	0.393938	P. V. Neugebauer.
206 45 14.2	3 37 6.6	4 15 29.6	1103.453	0.338168	Berberich.
7 1 39.4	4 53 46.0	17 25 44.2	740.971	0.453470	Berberich.
98 1 47.9	9 33 4.0	12 47 51.8	823.2586	0.422980	P. V. Neugebauer.
256 45 22.3	2 0 25.2	13 34 32.1	457.624	0.592999	Berberich.
290 29 11.7	9 47 15.7	8 8 23.0	840.020	0.417144	Berberich.
358 4 33.5	20 49 30.8	8 14 41.4	630.916	0.500024	P. V. Neugebauer.
132 41 16.8	25 3 43.4	10 17 7.7	965.064	0.376967	Osten.
69 31 24.1	5 3 33.4	10 12 32.5	788.475	0.435479	Liebmann.
105 17 44.1	12 56 51.7	12 28 13.5	790.4529	0.434754	Osten.
91 8 46.2	9 47 29.5	14 6 50.2	805.8993	0.429151	Osten.
313 36 55.5	16 53 18.3	8 19 48.2	669.497	0.482839	Berberich.
295 14 4.1	9 33 26.6	5 47 47.4	632.696	0.499208	Bauschinger.
45 20 39.5	13 24 2.0	0 40 50.2	631.586	0.499716	Berberich.
218 26 48.9	15 22 46.1	5 34 11.6	660.724	0.486658	P. V. Neugebauer.
203 33 10.2	9 30 37.0	11 4 49.0	838.933	0.417520	Berberich.
108 50 30.7	15 50 35.0	11 8 23.3	630.6576	0.500142	Zinner.
107 9 26.7	8 40 0.2	14 23 28.7	1107.602	0.337032	Berberich.
185 49 9.3	9 28 24.1	5 0 12.4	677.958	0.479204	P. V. Neugebauer.
270 11 57.9	3 52 8.7	2 34 14.7	667.6424	0.4836418	Berberich.
122 6 47.5	2 0 50.7	10 3 36.2	645.556	0.493382	Berberich.
330 26 47.1	13 3 0.9	16 1 27.1	810.64382	0.427451	Fontana.
277 45 24.7	3 9 58.2	10 6 5.7	641.8172	0.4950634	A. Kohlschütter.
203 57 40.2	6 37 46.0	12 42 29.2	885.773	0.401789	Berberich.
45 23 10.7	11 1 48.4	10 53 8.0	761.032	0.445736	Berberich.
35 5 35.2	11 0 18.8	6 0 18.2	680.357	0.478180	Götz.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
							° ′ ″	° ′ ″
521 Brixia	April 28	13.4	12.1	8.7	1909 Febr. 26.5	1910.0	73 29 45.1	312 31 31.6
522 Helga	—	—	12.6	7.7	1904 Jan. 10.5	1910.0	105 10 19.0	243 3 50.8
523 Ada	April 21	13.2	12.8	9.0	1904 Jan. 27.5	1910.0	27 56 2.5	185 12 52.8
524 Fidelio . . .	Aug. 4	12.3	12.4	9.2	1904 März 18.5	1910.0	105 51 23.0	76 39 52.3
525 Adelaide . .	Febr. 18	13.4	13.8	9.3	1904 März 18.5	1910.0	69 22 2.8	281 27 50.8
526 Jena	Mai 16	13.1	13.1	9.0	1909 Febr. 6.0	1910.0	359 19 18.1	357 35 43.8
527 Euryanthe .	Nov. 13	12.4	12.5	9.2	1904 März 20.5	1910.0	258 56 2.1	199 40 42.4
528 Rezia	März 17	12.5	12.4	7.8	1904 März 24.5	1910.0	156 3 49.2	337 43 36.1
529 Preziosa . .	Mai 21	13.5	13.0	9.1	1904 März 24.5	1910.0	138 10 8.7	336 38 38.9
530 Turandot . .	Mai 4	12.4	12.4	8.2	1904 April 18.5	1910.0	268 13 53.6	188 19 26.3
531 Zerlina . . .	Okt. 12	14.5	14.0	10.5	1904 April 12.5	1910.0	329 16 0.7	53 51 42.6
532 Herculina . .	Sept. 10	10.6	9.8	6.3	1904 Mai 5.5	1910.0	18 56 34.1	72 59 41.2
533 Sara	Juli 16	13.3	13.5	9.6	1904 April 19.5	1910.0	335 57 42.3	58 34 53.1
534 Nassovia . .	Juli 16	13.3	12.8	9.2	1904 Mai 19.5	1910.0	128 10 32.6	344 51 41.9
535 Montague . .	Dez. 9	11.8	11.8	8.8	1904 Juni 3.5	1910.0	86 4 14.8	58 53 6.4
536 Merapi . . .	April 24	12.1	11.7	7.0	1904 Mai 12.0	1910.0	254 58 24.4	292 45 11.7
537 Pauly	Okt. 10	12.5	13.1	9.1	1904 Juli 15.5	1910.0	350 27 47.1	181 9 24.9
538 Friederike .	Sept. 21	12.2	13.2	9.0	1904 Juli 19.5	1910.0	318 36 36.4	222 52 26.0
539 Pamina . . .	—	—	13.1	9.7	1904 Aug. 5.5	1910.0	325 31 4.8	94 0 8.3
540 Rosamunde .	Mai 1	11.7	12.1	10.0	1904 Aug. 6.5	1910.0	132 29 40.5	334 20 33.8
541 Deborah . .	Dez. 15	13.2	12.9	9.4	1904 Aug. 4.5	1910.0	60 42 30.4	349 26 1.9
542 Susanna . .	Dez. 44	12.9	12.8	9.0	1904 Aug. 16.5	1910.0	345 9 28.2	212 57 44.6
543 Charlotte . .	Dez. 29	12.1	12.7	8.7	1904 Nov. 11.5	1910.0	348 26 5.2	105 5 43.9
544 Jetta	—	—	12.6	9.5	1904 Nov. 6.5	1910.0	89 4 27.2	338 21 35.6
545 Messalina . .	Nov. 5	12.3	12.2	8.0	1907 Mai 8.0	1910.0	222 1 28.4	326 21 17.4
546 Herodias . .	Jan. 26	11.5	12.1	9.0	1904 Okt. 13.5	1910.0	259 39 22.4	107 27 20.0
547 Praxedis . .	Jan. 2	12.1	12.7	9.2	1904 Nov. 17.5	1910.0	11 9 44.8	193 3 13.7
548 Kressida . .	Juni 19	14.0	13.2	10.8	1904 Okt. 14.5	1910.0	336 36 46.1	318 28 31.0
549 Jessonda . .	März 20	13.2	13.5	10.2	1904 Dez. 27.5	1910.0	358 10 57.7	153 34 32.7
550 Senta	Febr. 2	13.0	11.9	8.8	1906 Febr. 22.0	1910.0	202 36 44.3	42 55 16.4
551 Ortrud . . .	—	—	12.8	9.0	1905 Jan. 15.5	1910.0	12 40 32.4	62 4 4.5
552 Sigelinde . .	Dez. 33	12.4	12.2	8.0	1905 Jan. 9.5	1910.0	206 12 40.7	329 48 30.1
553 Kundry . . .	Aug. 19	13.8	13.7	11.5	1905 Jan. 9.5	1910.0	16 23 30.6	357 50 30.4
554 Peraga . . .	Juni 21	11.4	10.8	8.2	1905 Jan. 0.0	1910.0	41 20 15.3	124 24 50.3
555 Norma . . .	—	—	13.9	9.7	1905 Jan. 14.5	1910.0	2 59 42.0	350 52 47.9
556 Phyllis . . .	Juni 14	13.0	12.5	9.7	1905 Jan. 16.5	1910.0	15 36 17.7	175 3 52.5
557 Violetta . . .	Juli 8	14.2	13.7	11.0	1905 Jan. 14.5	1910.0	1 42 52.4	190 0 23.4
558 Carmen . . .	Febr. 15	12.1	12.2	8.5	1905 Febr. 9.5	1910.0	41 17 34.4	314 40 14.0
559 Nanon . . .	Juni 6	12.0	12.3	9.0	1905 April 20.5	1910.0	321 9 51.5	125 30 48.5
560 Delila	Mai 2	13.2	13.4	10.0	1905 März 13.5	1910.0	22 18 46.4	33 12 22.8

Ω	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
90 27 43.3	10 29 22.5	16 16 9.4	780.20191	0.4385331	Millosevich.
119 17 8.3	4 28 18.3	4 32 44.0	513.919	0.559408	Lassen.
262 13 56.0	4 18 47.0	10 8 17.0	694.113	0.472384	Berberich.
327 6 38.6	8 11 46.3	6 24 2.8	825.223	0.422290	Berberich.
125 54 33.5	3 15 5.6	21 46 42.6	581.342	0.523718	P. V. Neugebauer.
137 54 21.8	2 8 33.4	8 5 57.9	644.22959	0.4939773	Knopf.
120 46 3.7	9 39 56.4	8 38 46.0	787.582	0.435808	P. V. Neugebauer.
51 49 29.5	12 42 51.3	1 8 5.7	566.409	0.531251	Berberich.
65 53 19.6	11 3 40.1	5 45 4.2	676.264	0.479926	P. V. Neugebauer.
130 9 13.2	8 26 1.0	10 27 17.8	611.920	0.508874	P. V. Neugebauer.
197 49 0.0	34 33 0.7	10 54 44.6	756.474	0.447475	Berberich.
108 19 46.1	16 22 36.6	10 6 31.8	768.8133	0.4427907	Götz.
180 44 25.0	6 23 16.4	3 25 57.8	685.108	0.476166	P. V. Neugebauer.
93 39 56.2	3 19 29.4	5 47 47.7	725.560	0.459556	Bauschinger.
84 45 17.8	6 48 8.9	1 51 11.1	862.724	0.409423	Dugan.
60 56 14.5	19 24 8.1	5 38 12.5	541.600	0.544219	Strömgren.
121 24 30.4	9 46 21.3	13 3 35.4	659.540	0.487179	P. V. Neugebauer.
142 24 22.1	6 36 23.2	9 22 44.9	630.980	0.499994	P. V. Neugebauer.
275 38 29.8	6 47 21.6	12 20 17.6	782.672	0.437618	P. V. Neugebauer.
202 1 49.9	5 33 15.2	5 3 8.0	1074.237	0.345938	P. V. Neugebauer.
268 30 54.8	5 57 29.6	2 33 35.6	751.048	0.449560	P. V. Neugebauer.
153 36 20.7	12 2 13.0	8 13 33.7	715.690	0.463521	Berberich.
296 40 42.9	8 26 57.2	9 2 0.8	662.328	0.485955	Berberich.
298 53 17.1	8 19 4.4	8 37 38.8	849.653	0.413843	Berberich.
334 27 2.5	11 11 0.7	10 35 10.4	626.1741	0.5022077	Berberich.
22 0 59.4	14 54 14.2	6 30 4.0	847.004	0.414747	Berberich.
193 29 59.2	16 56 38.9	13 46 3.9	769.074	0.442693	Berberich.
108 6 36.2	3 52 2.4	10 43 4.5	1029.495	0.358255	Berberich.
292 25 37.8	3 55 44.4	14 55 43.6	805.659	0.429237	Berberich.
271 4 28.4	10 6 47.1	12 38 44.0	850.6748	0.4134954	Berberich.
9 2 55.5	0 26 16.7	7 2 31.5	694.369	0.472277	Berberich.
268 49 48.1	7 26 1.8	4 3 57.6	631.413	0.499796	Berberich.
71 58 47.4	5 17 7.4	6 21 40.1	1073.630	0.346101	Berberich.
295 48 6.5	2 56 14.3	8 54 53.0	969.164	0.375740	Abetti.
130 57 4.1	2 38 44.7	8 50 39.9	624.247	0.503100	Berberich.
285 55 15.3	5 14 18.5	5 46 43.4	915.845	0.392123	Berberich.
293 25 59.7	2 31 9.7	5 35 58.3	926.968	0.388628	Berberich.
144 19 47.1	8 21 1.0	2 14 1.0	715.481	0.463606	Berberich.
112 27 18.8	9 18 13.9	3 45 2.0	794.666	0.433215	Berberich.
103 45 8.8	8 13 39.4	7 5 19.7	778.172	0.439287	Berberich.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
561 Ingwelde . .	Jan. 19	13.1	13.9	9.7	1905 März 30.5	1910.0	67° 22′ 32.6″	302° 12′ 58.7″
562 Salome . . .	März 31	13.3	12.9	9.0	1905 April 8.5	1910.0	241 39 15.7	257 21 3.7
563 Suleika . . .	Mai 31	12.3	11.1	7.8	1905 Mai 30.5	1910.0	153 53 28.2	333 32 22.6
564 Dudu	Sept. 3	12.5	13.7	10.3	1905 Mai 9.5	1910.0	329 11 6.8	211 29 56.6
565 Marbachia .	Sept. 27	13.5	12.9	10.2	1905 Mai 9.5	1910.0	69 45 0.0	290 15 39.7
566 Stereoskopia	März 28	12.0	11.5	7.0	1905 Juni 1.5	1910.0	232 36 44.7	303 22 29.6
567 Eleutheria .	April 10	12.6	13.1	9.0	1905 Juni 3.5	1910.0	34 48 12.4	149 57 2.9
568 Cheruskia . .	Aug. 30	12.0	12.3	8.6	1905 Aug. 21.5	1910.0	291 43 54.1	170 31 48.8
569 Misa	Dez. 11	11.2	12.4	9.2	1905 Juli 27.5	1910.0	271 43 15.6	137 54 52.4
570 [1905 *QX*] .	Mai 15	13.1	12.7	8.1	1905 Aug. 3.5	1910.0	323 12 44.3	139 5 21.5
571 [1905 *QZ*] .	—	—	13.8	11.2	1905 Okt. 2.5	1910.0	345 47 59.8	23 33 36.0
572 [1905 *RB*] .	Jan. 11	12.6	12.9	10.5	1905 Sept. 19.5	1910.0	339 5 16.1	198 29 16.4
573 [1905 *RC*] .	Aug. 25	12.6	13.2	9.2	1905 Sept. 19.5	1910.0	346 7 29.5	28 47 17.0
574 [1905 *RD*] .	Febr. 15	14.2	14.3	12.0	1905 Okt. 29.5	1910.0	339 36 10.0	67 34 41.2
575 [1905 *RE*] .	Dez. 42	14.0	13.5	10.5	1905 Okt. 4.5	1910.0	28 6 33.6	337 56 22.3
576 Emanuela . .	Juli 27	11.6	12.7	8.8	1905 Sept. 22.5	1910.0	11 14 22.6	31 22 7.0
577 [1905 *RH*] .	Aug. 19	12.3	13.0	8.9	1905 Okt. 30.5	1910.0	71 29 57.1	321 2 10.2
578 [1905 *RZ*] .	Dez. 14	12.9	12.0	8.6	1905 Nov. 1.5	1910.0	100 27 0.3	257 57 17.2
579 [1905 *SD*] .	Nov. 7	11.5	11.5	7.6	1905 Nov. 23.5	1910.0	97 39 16.0	231 12 32.5
580 [1905 *SE*] .	Okt. 2	13.3	13.7	9.6	1906 Febr. 12.5	1910.0	31 51 48.2	315 13 19.9
581 Tauntonia .	Nov. 4	13.6	13.7	9.4	1905 Dez. 24.5	1910.0	28 33 46.5	320 23 29.0
582 [1906 *SO*] .	—	—	12.6	9.5	1906 Jan. 23.5	1910.0	19 35 13.9	308 33 14.2
583 Klotilde . . .	Sept. 25	13.5	13.1	8.9	1906 Jan. 0.0	1910.0	295 18 26.6	239 22 21.6
584 [1906 *SY*] .	Febr. 14	12.4	11.5	8.9	1906 Jan. 15.5	1910.0	84 51 19.1	83 0 39.3
585 [1906 *TA*] .	April 10	12.2	12.7	10.0	1906 Febr. 16.5	1910.0	7 29 29.6	326 1 33.1
586 [1906 *TC*] .	—	—	12.9	9.0	1906 Febr. 21.5	1910.0	49 39 30.5	218 56 14.0
587 [1906 *TF*] .	April 25	14.1	14.3	11.8	1906 März 18.5	1910.0	3 2 13.5	185 45 37.2
588 Achilles . .	Juni 10	15.1	14.2	7.7	1906 Febr. 22.5	1910.0	43 45 37.0	129 24 4.8
589 [1906 *TM*] .	—	—	12.7	8.6	1906 März 23.5	1910.0	141 5 33.1	210 53 18.5
590 [1906 *TO*] .	—	—	13.1	9.2	1906 April 2.5	1910.0	96 46 55.1	329 50 3.8
591 [1906 *TP*] .	Jan. 8	13.3	13.5	10.3	1906 März 18.5	1910.0	346 2 9.3	215 31 37.9
592 [1906 *TS*] .	—	—	12.8	8.9	1906 März 23.5	1910.0	103 51 54.2	248 14 0.9
593 [1906 *TT*] .	—	—	12.4	9.1	1906 März 20.5	1910.0	49 9 33.4	27 49 39.4
594 [1906 *TW*] .	Febr. 1	14.6	15.0	11.8	1906 März 30.5	1910.0	336 10 41.3	76 0 16.4
595 [1906 *TZ*] .	—	—	12.1	7.8	1906 Mai 18.5	1910.0	291 37 29.7	264 26 33.1
596 [1906 *UA*] .	—	—	12.0	8.2	1906 Febr. 22.5	1910.0	296 49 40.2	172 26 41.9
597 [1906 *UB*] .	März 25	13.3	12.8	9.5	1906 April 16.5	1910.0	287 19 14.6	273 58 52.1
598 [1906 *UC*] .	Febr. 16	12.5	12.0	8.5	1906 April 16.5	1910.0	161 51 51.1	285 28 7.5
599 [1906 *UJ*] .	März 28	13.5	12.4	8.8	1906 April 28.5	1910.0	278 5 44.3	290 3 48.7
600 [1906 *UM*] .	Mai 7	12.8	13.0	9.8	1906 Juni 22.5	1910.0	12 41 3.5	112 42 34.8

☊	i	φ	μ	Log. a	Autorität
° ′ ″	° ′ ″	° ′ ″	″		
160 33 57.6	1 30 49.2	8 42 31.0	624.357	0.503049	Berberich.
71 41 19.7	11 8 31.6	5 25 14.8	677.324	0.479473	Berberich.
84 55 34.2	10 20 46.8	13 56 47.2	792.084	0.434157	Berberich.
71 19 29.8	18 11 23.1	15 49 3.5	778.746	0.439074	Berberich.
225 54 9.2	10 53 58.1	7 18 40.0	931.272	0.387286	Berberich.
81 31 55.4	5 1 28.0	6 55 16.7	577.344	0.525714	Berberich.
59 10 18.8	8 59 6.6	4 55 30.7	641.903	0.495025	Berberich.
250 11 39.3	18 21 5.4	9 40 10.3	725.727	0.459489	Berberich.
303 23 10.5	1 17 41.6	10 39 40.4	819.260	0.424390	Hackenberg.
229 45 19.8	1 41 9.4	6 28 5.2	559.597	0.534754	Berberich.
3 24 2.5	5 7 16.2	13 48 56.0	969.479	0.375645	Berberich.
194 51 53.3	9 23 27.6	10 0 31.0	1008.005	0.364362	Berberich.
343 54 36.1	9 52 9.7	6 22 6.9	678.763	0.478859	Berberich.
338 20 14.5	6 10 51.8	11 46 23.9	1048.529	0.352951	Berberich.
349 39 6.8	14 54 14.6	6 58 24.8	866.098	0.408293	Berberich
300 12 40.5	10 12 1.3	10 59 27.9	672.075	0.481725	Berberich.
331 16 20.9	5 16 23.6	8 17 18.0	644.417	0.493893	P. V. Neugebauer.
30 35 21.5	6 11 45.6	11 9 8.7	775.472	0.440294	Kreutz.
83 21 40.4	11 2 4.4	4 35 58.0	677.103	0.479568	P. V. Neugebauer.
99 40 3.9	3 40 33.0	7 38 52.2	618.613	0.505726	P. V. Neugebauer.
103 8 5.6	21 55 39.1	2 30 51.4	615.963	0.506968	Morgan.
155 39 3.4	29 57 18.6	13 4 0.2	837.303	0.418083	Berberich.
261 26 58.1	8 17 15.3	8 31 10.8	629.074	0.500870	Osten.
282 44 25.6	10 50 13.4	14 24 37.0	962.562	0.377718	P. V. Neugebauer.
180 14 3.6	7 30 54.9	7 29 19.0	937.316	0.385414	P. V. Neugebauer.
231 1 22.4	1 35 36.2	4 27 6.5	674.790	0.480558	P. V. Neugebauer.
324 13 40.9	25 1 30.4	9 29 40.6	995.965	0.367842	Berberich.
315 34 34.0	10 16 37.5	8 10 14.6	294.703	0.720415	Bidschof.
178 44 4.8	10 47 14.6	2 54 51.2	640.839	0.495506	P. V. Neugebauer.
106 47 6.7	11 9 39.0	3 53 41.4	684.296	0.476508	Berberich.
334 51 31.5	12 33 50.6	12 1 41.4	807.881	0.428440	Berberich.
169 15 27.2	10 6 31.5	7 1 12.3	676.021	0.480030	P. V. Neugebauer.
76 18 2.1	17 0 16.1	12 17 10.9	799.698	0.431387	Berberich.
155 23 47.7	32 45 44.5	20 27 11.7	833.298	0.419471	Berberich.
25 0 50.1	18 21 57.6	4 17 47.8	620.181	0.504992	P. V. Neugebauer.
71 7 48.6	14 38 14.8	9 26 11.2	706.587	0.467228	Berberich.
36 16 35.2	10 17 14.7	10 28 40.2	803.648	0.429960	Berberich.
92 29 18.9	12 10 13.6	14 5 50.8	770.503	0.442154	Berberich.
45 33 2.7	16 33 46.0	17 15 7.2	768.430	0.442925	Frederickson.
139 38 9.7	10 11 18.4	3 8 12.2	817.198	0.425120	Hammond und Frederickson.

Nr. und Name	Opposition 1910	Gr.	m_0	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
601 [1906 *UN*] .	Febr. 27	13.1	12.6	8.5	1906 Juli 12.0	1910.0	328° 53′ 13.5″	148° 32′ 23.8″
602 Marianna . .	—	—	12.1	8.0	1907 Jan. 0.0	1910.0	169 19 30.4	41 36 46.0
603 [1906 *TJ*] .	Febr. 3	13.0	13.9	10.9	1907 Jan. 0.0	1910.0	82 16 11.2	155 30 12.8
604 [1906 *TK*] .	Dez. 22	11.4	12.4	8.2	1906 Febr. 16.5	1910.0	85 46 42.3	22 22 2.3
605 [1906 *UU*] .	Juli 16	12.6	12.9	9.0	1906 Aug. 28.5	1910.0	38 19 40.6	13 42 45.9
606 [1906 *VB*] .	Aug. 29	11.6	12.9	9.8	1906 Sept. 18.5	1910.0	354 2 14.3	55 33 48.3
607 [1906 *VC*] .	Juli 20	12.5	12.6	9.0	1906 Sept. 18.5	1910.0	149 52 0.0	285 42 55.8
608 [1906 *VD*] .	Mai 27	14.4	14.1	10.2	1906 Sept. 18.5	1910.0	2 17 9.8	69 12 50.4
609 [1906 *VF*] .	Mai 31	12.7	12.8	8.9	1906 Sept. 24.5	1910.0	104 8 36.7	94 43 37.9
610 [1906 *VK*] .	Mai 10	16.4	15.6	11.6	1906 Sept. 26.5	1910.0	356 4 8.3	352 44 47.4
611 [1906 *VL*] .	Juli 7	14.3	12.3	9.8	1906 Nov. 2.5	1910.0	311 33 44.1	254 17 51.7
612 [1906 *VN*] .	März 30	15.3	14.6	10.4	1906 Okt. 8.5	1910.0	24 11 21.4	296 32 0.0
613 [1906 *VP*] .	Juli 23	13.2	13.0	9.3	1906 Okt. 14.5	1910.0	334 44 46.7	60 58 25.9
614 [1906 *VQ*] .	Aug. 29	13.5	13.7	10.2	1906 Okt. 11.5	1910.0	333 21 2.4	201 42 34.6
615 [1906 *VR*] .	Sept. 29	12.7	12.6	9.4	1906 Okt. 11.5	1910.0	121 12 10.4	243 35 21.6
616 [1906 *VT*] .	Okt. 4	12.7	12.7	9.7	1906 Okt. 8.5	1910.0	284 39 35.2	107 53 55.7
617 Patroclus . .	Febr. 12	13.2	12.6	5.9	1907 Dez. 14.0	1910.0	73 1 24.7	302 25 48.2
618 [1906 *VZ*] .	Mai 24	12.5	12.4	8.2	1906 Okt. 25.5	1910.0	33 7 17.6	235 5 21.8
619 [1906 *WC*] .	Nov. 13	11.8	12.1	9.2	1906 Okt. 22.5	1910.0	35 14 23.9	174 46 28.1
620 Drakonia . .	Dez. 3	13.4	13.6	10.6	1906 Nov. 6.5	1910.0	58 40 35.1	332 29 0.4
621 [1906 *WJ*] .	Juli 27	14.6	13.9	9.9	1906 Nov. 14.5	1910.0	332 9 17.0	29 15 48.6
622 [1906 *WP*] .	Dez. 43	12.1	12.8	10.1	1906 Dez. 18.5	1910.0	19 40 58.6	253 50 19.2
623 [1907 *XJ*] .	—	—	12.8	10.0	1907 Febr. 5.5	1910.0	51 17 38.0	123 13 4.8
624 Hektor . . .	Mai 19	13.1	13.2	6.4	1907 Febr. 10.0	1910.0	335 47 12.3	183 51 50.9
625 [1907 *XN*] .	—	—	12.1	8.9	1907 Febr. 21.5	1910.0	180 11 33.7	201 26 39.0
626 [1907 *XO*] .	—	—	11.4	8.4	1907 Febr. 21.5	1910.0	97 38 46.1	42 16 40.4
627 [1907 *XS*] .	Nov. 23	13.2	13.1	9.3	1907 März 7.5	1910.0	211 24 57.4	152 11 26.3
628 [1907 *XT*] .	—	—	12.2	9.2	1907 März 12.5	1910.0	185 26 16.9	213 34 40.0
629 [1907 *XU*] .	Sept. 20	14.3	13.8	9.7	1907 März 7.5	1910.0	21 17 50.2	31 40 42.7
630 [1907 *XW*] .	Dez. 36	13.0	13.5	10.3	1907 März 12.5	1910.0	5 28 27.0	42 42 27.6
631 [1907 *YJ*] .	—	—	12.3	8.8	1907 April 11.5	1910.0	66 40 35.6	276 20 22.3
632 [1907 *YX*] .	—	—	14.5	11.3	1907 April 12.5	1910.0	339 21 29.5	248 15 59.6
633 [1907 *ZM*] .	—	—	12.9	9.1	1907 Juni 5.5	1910.0	285 16 53.7	181 45 9.7
634 [1907 *ZN*] .	—	—	13.1	9.1	1907 Juni 5.5	1910.0	273 47 51.4	216 6 7.6
635 [1907 *ZS*] .	—	—	12.6	8.5	1907 Juni 12.5	1910.0	227 8 54.1	214 50 24.0
636 [1907 *XP*] .	Dez. 5	12.5	12.4	8.7	1907 März 2.5	1907.0	171 51 57.8	294 7 53.9
637 [1907 *YE*] .	Okt. 26	14.4	14.0	9.8	1907 April 9.5	1908.0	8 19 36.0	172 25 44.1
638 [1907 *ZQ*] .	—	—	13.5	10.1	1907 Mai 20.5	1908.0	3 29 54.8	125 45 12.0
639 [1907 *ZT*] .	Febr. 1	12.6	12.1	8.2	1907 Juli 31.5	1907.0	338 0 32.2	56 25 58.3
640 [1907 *ZW*] .	Jan. 17	13.3	13.0	8.8	1907 Okt. 22.5	1907.0	81 31 30.9	24 47 52.8

☊	i	φ	μ	Log. a	Autorität
170° 30′ 11.6″	16° 2′ 55.2″	6° 23′ 41.5″	640.8147″	0.4955162	Svoboda.
333 10 21.1	15 54 49.5	16 16 0.1	650.9343	0.490980	Varnum.
343 40 3.7	8 7 47.4	8 28 45.5	869.24105	0.407243	Zimmer.
12 28 55.2	4 40 7.2	14 12 14.1	627.395	0.501643	Barton.
343 21 36.0	19 40 12.9	7 45 29.6	679.007	0.478756	R. Coniel.
319 2 3.6	8 39 46.5	12 29 1.0	853.184	0.412642	P. V. Neugebauer.
286 5 16.5	10 4 37.8	4 32 56.8	737.698	0.454752	P. V. Neugebauer.
295 1 36.8	9 23 5.6	6 42 29.1	675.233	0.480369	P. V. Neugebauer.
166 26 48.0	4 9 12.5	1 54 54.8	654.955	0.489196	P. V. Neugebauer.
21 8 56.5	12 49 15.5	14 21 25.7	658.573	0.487602	P. V. Neugebauer.
190 21 36.3	13 18 9.4	7 48 13.9	686.547	0.475558	Hammond.
25 8 49.0	20 34 1.4	15 33 35.2	633.186	0.498984	R. Coniel.
355 47 15.7	7 44 34.2	3 9 6.9	712.025	0.465008	P. V. Neugebauer.
217 34 5.6	7 12 58.7	5 27 29.8	801.678	0.430672	P. V. Neugebauer.
14 0 14.0	2 46 28.3	6 12 12.3	831.720	0.420020	P. V. Neugebauer.
356 6 10.9	15 0 22.4	3 40 57.9	868.924	0.407350	P. V. Neugebauer.
43 28 35.9	22 3 15.1	8 14 37.9	300.532	0.714644	Heinrich.
111 30 24.9	17 1 46.8	3 27 5.4	622.091	0.504102	P. V. Neugebauer.
187 39 15.4	13 38 56.9	4 18 7.3	886.616	0.401514	P. V. Neugebauer.
0 18 18.3	7 46 1.1	7 44 31.4	931.23617	0.387298	Stouffer.
67 46 12.3	2 22 7.5	8 44 20.0	646.397	0.493006	P. V. Neugebauer.
142 24 53.6	8 38 44.5	14 8 38.8	944.890	0.383084	Hammond.
308 29 59.6	14 11 32.6	6 35 32.0	918.318	0.391343	Kritzinger.
342 0 56.6	18 7 18.3	2 8 23.6	292.584	0.722504	Strömgren.
127 50 8.5	12 11 42.0	13 20 54.2	828.707	0.421070	P. V. Neugebauer.
341 37 38.6	25 25 19.5	13 52 38.1	859.674	0.410448	P. V. Neugebauer.
142 51 33.8	6 24 23.7	3 20 20.4	708.465	0.466460	P. V. Neugebauer.
112 9 31.8	11 32 38.8	2 36 13.1	860.566	0.410150	P. V. Neugebauer.
88 10 36.6	9 22 49.4	9 42 19.8	636.547	0.497450	P. V. Neugebauer.
105 16 41.7	13 50 34.2	6 35 43.3	825.166	0.422310	P. V. Neugebauer.
225 3 1.6	18 50 0.0	4 36 8.2	761.090	0.445713	P. V. Neugebauer.
358 7 33.5	2 15 26.1	11 11 27.9	816.080	0.425516	P. V. Neugebauer.
147 54 45.4	10 53 4.1	5 53 13.8	672.022	0.481750	P. V. Neugebauer.
134 16 37.2	12 19 26.7	10 49 5.5	666.037	0.484340	P. V. Neugebauer.
184 20 14.5	11 1 17.2	4 46 31.6	637.791	0.496886	P. V. Neugebauer.
35 24 23.5	7 56 27.7	9 57 10.5	714.6833	0.463929	Hall.
357 34 2.6	0 20 7.2	7 22 8.8	625.5773	0.502484	Snow.
103 38 18.3	7 41 31.6	9 19 44.3	784.6983	0.436869	Snow.
281 26 7.9	8 36 14.0	5 43 14.7	681.063	0.477880	P. V. Neugebauer.
235 58 21.3	13 20 41.9	4 27 25.9	631.6072	0.499707	Kobold.

Nr. und Name	Opposition 1910	Gr.	$m_\circ$	g	Epoche und Oskulation	Mittl. Äqu.	M	ω
641 [1907 *ZX*] .	Juli 25	14.7	14.5	12.3	1907 Okt. 13.5	1907.0	316° 4′ 12.8″	16° 14′ 28.8″
642 [1907 *ZY*] .	März 19	13.0	13.5	9.3	1907 Okt. 13.5	1907.0	249 13 36.1	114 18 7.8
643 [1907 *ZZ*] .	Febr. 24	13.8	13.9	9.4	1907 Sept. 12.5	1907.0	279 19 21.7	194 48 52.3
644 [1907 *AA*] .	Mai 18	13.6	13.1	10.0	1907 Nov. 6.5	1907.0	22 28 46.4	263 37 32.2
645 [1907 *AG*] .	März 30	14.0	13.5	9.3	1907 Sept. 29.5	1907.0	284 39 33.0	89 8 41.6
646 [1907 *AC*] .	Mai 17	14.5	14.5	12.1	1907 Sept. 18.5	1907.0	13 16 3.9	35 25 9.3
647 [1907 *AD*] .	Juni 22	14.4	13.5	10.8	1907 Sept. 16.5	1907.0	311 18 23.4	173 15 10.9
648 [1907 *AE*] .	April 24	13.4	13.1	8.9	1907 Sept. 16.5	1907.0	285 3 26.1	170 6 17.3
649 [1907 *AF*] .	April 4	16.1	15.1	12.1	1907 Sept. 11.5	1907.0	7 4 30.0	346 49 8.9
650 [1907 *AM*] .	Juni 19	15.1	14.7	11.9	1907 Okt. 4.5	1907.0	3 3 39.3	176 4 27.1
651 [1907 *AN*] .	April 22	14.0	13.5	9.6	1907 Okt. 4.5	1907.0	9 56 25.8	349 23 52.7
652 Jubilatrix .	Juni 10	13.3	13.3	10.3	1907 Nov. 4.5	1907.0	43 0 32.1	274 33 0.7
653 [1907 *BK*] .	Mai 30	12.8	12.9	9.0	1907 Dez. 21.5	1909.0	250 49 12.4	49 0 19.2
654 Zelinda . .	Sept. 30	11.5	11.1	8.7	1909 Juli 16.5	1910.0	144 23 1.4	212 20 8.2
655 [1907 *BF*] .	April 30	13.0	12.6	8.7	1907 Dez. 11.5	1909.0	359 29 49.3	279 15 13.5
656 [1908 *BU*] .	Juli 14	14.1	13.6	9.5	1908 Jan. 25.5	1908.0	334 23 21.2	321 33 2.4
657 [1908 *BV*] .	Sept. 13	14.3	13.7	10.6	1908 Jan. 28.5	1908.0	311 49 19.6	239 11 47.2
658 [1908 *BW*].	Juli 12	13.8	13.6	10.0	1908 Febr. 9.5	1908.0	57 58 54.4	65 6 46.0
659 [1908 *CS*] .	Juni 5	14.1	14.4	7.7	1908 März 23.5	1908.0	240 38 5.1	327 31 27.6
660 [1908 *CC*] .	Okt. 20	10.8	10.6	7.6	1908 Jan. 12.5	1908.0	221 57 35.9	107 23 10.3
661 [1908 *CL*] .	Aug. 15	12.9	12.7	8.8	1908 Febr. 26.5	1908.0	20 26 7.8	154 47 9.0
662 [1908 *CW*] .	—	—	13.3	10.3	1908 April 26.5	1910.0	298 23 45.8	163 7 58.8
663 [1908 *DG*] .	—	—	13.0	9.0	1908 Juni 27.5	1908.0	78 4 18.6	308 37 6.3
664 [1908 *DH* .	Dez. 8	15.3	14.2	10.0	1908 Juni 27.5	1908.0	6 21 50.5	90 4 28.3
665 [1908 *DK*] .	Dez. 17	15.0	12.8	8.7	1908 Juli 27.5	1908.0	40 38 57.9	314 27 8.2
666 [1908 *DM*] .	Febr. 7	13.9	13.6	10.5	1908 Juli 27.5	1908.0	314 31 43.3	171 2 1.5
667 [1908 *DN*] .	—	—	13.4	9.2	1908 Aug. 24.5	1908.0	236 16 13.3	304 30 8.7
668 [1908 *DO*] .	—	—	15.0	11.5	1908 Aug. 21.5	1908.0	358 3 9.6	108 22 10.7
669 [1908 *DQ*] .	—	—	13.7	9.8	1908 Aug. 27.5	1908.0	53 59 9.5	99 54 9.0
670 [1908 *DR*] .	Jan. 14	13.6	13.4	9.9	1908 Nov. 15.0	1908.0	356 26 39.5	191 28 40.9
671 [1908 *DV*] .	—	—	13.1	9.0	1908 Sept. 28.5	1908.0	289 12 29.5	82 2 50.6
672 [1908 *DY*] .	Jan. 5	14.0	13.3	10.3	1908 Sept. 24.5	1908.0	54 53 25.9	308 21 8.9
673 [1908 *EA*] .	Jan. 0	12.9	13.0	9.4	1908 Sept. 24.5	1908.0	265 57 47.1	228 16 8.8
674 Rachel . . .	März 14	10.3	10.7	7.0	1910 März 3.5	1910.0	47 47 16.8	39 1 38.7
[1894 *BD*] .	—	—	13.3	11.3	1894 Nov. 1.5	1900.0	337 18 8.4	356 39 18.9
[1902 *JT*] .	—	—	—	—	1902 Okt. 23.5	1902.0	33 40 54.1	245 30 35.0
[1904 *OR*] .	—	—	—	—	1904 Okt. 3.5	1904.0	357 7 3.9	60 22 31.4
[1906 *UT*] .	—	—	12.3	8.5	1906 Aug. 29.5	1906.0	246 19 17.1	279 19 40.4
[1906 *WA*] .	—	—	13.6	9.5	1906 Okt. 25.5	1906.0	335 44 25.8	235 55 34.2
[1908 *CV*] .	—	—	—	—	1908 Febr. 9.0	1908.0	318 39 29	78 8 18
[1908 *DC*] .	—	—	—	—	1908 April 26.5	1908.0	22 46 15	345 36 5
[1908 *DW*] .	—	—	—	—	1908 Sept. 21.5	1908.0	19 30 32.5	129 26 55.2

☊	i	φ	μ	Log. a	Autorität
40° 38′ 27.0″	1° 43′ 47.5″	7° 15′ 52.8″	1072.478″	0.346412	P. V. Neugebauer.
7 21 52.5	8 12 23.4	8 2 31.3	627.201	0.501734	P. V. Neugebauer.
255 22 17.4	13 47 35.6	4 26 16.1	577.5812	0.525596	G. Struve.
108 52 41.9	1 2 20.0	9 18 25.2	841.850	0.416514	Palisa.
0 47 29.7	7 4 16.1	8 56 0.6	620.253	0.504958	Frederickson.
302 54 6.3	6 56 23.4	12 16 10.0	1000.933	0.366401	P. V. Neugebauer.
254 44 6.5	7 18 38.0	11 11 53.9	929.838	0.387734	P. V. Neugebauer.
292 41 59.2	9 59 11.4	12 44 41.0	624.825	0.502832	P. V. Neugebauer.
357 12 59.5	12 46 42.7	16 16 15.1	869.564	0.407136	P. V. Neugebauer.
215 40 20.4	2 33 31.8	10 46 12.3	918.478	0.391292	P. V. Neugebauer.
38 49 59.8	10 45 10.0	5 23 25.2	674.638	0.480624	P. V. Neugebauer.
86 15 29.2	15 43 11.0	7 14 9.8	869.682	0.407097	Hopfner.
133 47 9.9	11 16 46.7	2 46 34.1	679.1475	0.478695	Snow.
278 16 24.9	18 9 40.2	13 16 33.0	1019.03855	0.3612107	Millosevich.
130 36 38.9	6 29 29.5	4 51 28.0	686.4657	0.475592	Lamson.
186 15 21.0	0 26 32.3	7 36 45.5	638.477	0.496574	P. V. Neugebauer.
298 13 21.1	10 16 48.2	6 15 55.4	843.374	0.415991	P. V. Neugebauer.
352 11 10.1	1 32 13.5	3 18 45.4	732.015	0.456992	P. V. Neugebauer.
349 57 41.7	4 31 14.7	6 23 59.1	300.785	0.714500	Ebell.
156 37 21.5	15 14 23.6	5 52 48.2	877.992	0.404344	Frederickson.
336 48 24.2	9 20 55.0	2 22 32.7	678.143	0.479124	Stracke.
133 30 1.7	4 5 50.6	12 44 38.6	870.989	0.406663	Daniel.
233 46 58.4	17 45 16.5	8 42 58.5	659.479	0.487204	P. V. Neugebauer.
175 51 38.6	8 31 5.8	14 2 19.2	628.749	0.501020	P. V. Neugebauer.
299 49 27.4	14 38 7.4	9 49 56.3	634.836	0.498231	P. V. Neugebauer.
215 34 41.9	7 34 9.7	13 56 19.3	850.116	0.413686	P. V. Neugebauer.
153 54 14.8	25 16 0.5	9 49 23.3	618.029	0.505998	P. V. Neugebauer.
216 2 50.2	6 48 13.0	13 20 26.6	759.640	0.446266	P. V. Neugebauer.
171 20 12.8	10 54 45.5	6 5 53.4	676.435	0.479854	P. V. Neugebauer.
175 10 26.8	7 32 37.2	11 16 55.6	756.0233	0.447648	Hellerich.
1 40 8.7	7 52 45.8	4 55 25.3	642.815	0.494614	Stracke.
344 2 11.5	11 0 17.5	7 28 2.9	871.386	0.406530	P. V. Neugebauer.
228 9 40.5	2 49 46.9	0 37 43.5	750.907	0.449614	Stracke.
58 54 7.2	13 35 36.6	10 57 10.3	708.1886	0.466572	Bianchi.
72 35 44.3	3 27 48.4	8 33 50.4	1104.735	0.337832	Berberich.
80 11 55.9	2 28 7.5	11 54 31.0	637.160	0.497172	Berberich.
301 18 11.1	5 28 38.8	9 4 57.1	642.729	0.494652	Berberich.
180 59 31.4	23 18 33.6	2 59 20.8	691.888	0.473314	Kritzinger.
193 50 5.4	9 15 15.4	8 51 34.8	649.218	0.491744	P. V. Neugebauer.
131 54 59	13 42 15	17 46 19	620.44	0.50487	Hirayama.
209 11 4	19 56 6	6 52 25	612.32	0.50869	Burns, Mc. Keelean.
178 11 33.9	6 17 23.5	27 13 22.8	818.534	0.42464	Palisa.

Planet	m_0	Epoche	Argument der Breite	☊	i	μ	Log. a
1892 *S* . .	13.0	1892 Dez. 17.5	77° 35′ 50″	358° 7′ 42″	3° 27′ 18″	835″.80	0.41860
1893 *C* . .	13.5	1893 Jan. 23.5	167 48 0	321 27 42	3 33 48	1182.9	0.31804
1893 *U*. .	13.0	1893 April 10.5	93 23 42	88 59 54	7 49 6	944.3	0.38330
1893 *X*. .	13	1893 März 21.5	112 50 17	72 17 48	1 34 4	423.40	0.61550
1893 *Y*. .	13	1893 April 17.5	79 39 46	124 24 8	0 18 4	549.95	0.53980
1894 *AW*.	12	1894 Febr. 3.5	62 6 12	21 39 36	4 33 42	996.0	0.36781
1896 *CU*.	12.0	1896 Sept. 3.5	100 46 25	243 53 26	5 51 46	692.17	0.47320
1898 *DW*.	13.5	1898 Nov. 19.5	181 1 17	229 11 55	14 40 58	841.15	0.41675
1898 *DX*.	—	1898 Nov. 19.5	182 5 12	227 3 49	22 26 34	589.39	0.51973
1898 *DY*.	13.5	1898 Nov. 13.5	198 18 19	216 46 18	3 15 55	673.12	0.48128
1898 *DZ* .	12.5	1898 Nov. 17.5	174 26 37	239 40 46	3 53 1	881.73	0.40312
1898 *EA* .	13	1898 Nov. 13.5	181 15 2	227 33 5	27 23 43	508.71	0.56236
1900 *FE* .	12.5	1900 März 6.5	33 49 36	129 37 12	13 13 24	882.1	0.40300
1900 *FL* .	14.0	1900 Sept. 28.5	152 4 21	197 51 1	6 39 4	768.78	0.44280
1901 *HC* .	—	1901 Nov. 12.5	202 51 49	193 51 50	16 21 55	701.06	0.46950
1901 *HD* .	—	1901 Nov. 15.5	339 15 43	62 43 50	29 31 43	592.93	0.51800
1902 *HY* .	—	1902 Juni 2.5	164 42 33	68 13 39	9 0 13	656.86	0.48836
1903 *LD* .	—	1903 Jan. 18.5	181 6 10	300 36 51	15 33 1	754.21	0.44834
1903 *LX*[a]	—	1903 Sept. 1.5	38 57 42	287 19 24	7 21 12	709.92	0.46587
1903 *LZ* .	—	1903 Aug. 30.5	153 22 42	189 17 0	9 22 0	759.30	0.44640
1903 *MC* .	—	1903 Sept. 29.5	185 33 38	167 13 30	26 16 59	564.44	0.53225
1903 *MD*.	—	1903 Sept. 29.5	358 34 29	354 45 52	14 35 22	654.46	0.48942
1903 *MF*.	—	1903 Sept. 29.5	183 25 53	171 9 13	10 55 45	783.09	0.43746
1903 *MM*.	—	1903 Okt. 14.5	181 15 12	195 37 36	4 56 48	714.71	0.46392
1903 *MN*.	—	1903 Okt. 24.5	350 9 6	39 35 0	7 51 54	945.90	0.38276
1903 *NF* .	—	1903 Dez. 18.5	216 0 54	230 11 48	15 16 54	849.85	0.41380
1903 *NG* .	—	1903 Nov. 14.5	178 3 42	230 52 18	8 38 12	649.73	0.49152
1904 *OD* .	—	1904 Mai 14.5	186 3 33	42 38 38	12 53 11	610.50	0.50954
1904 *OP* .	—	1904 Sept. 5.5	45 37 34	293 4 6	13 37 4	735.20	0.45572
1904 *QW*.	—	1904 April 4.5	70 11 57	108 54 13	11 14 22	716.53	0.46318
1905 *RN*.	—	1905 Okt. 24.5	63 34 0	336 9 12	3 12 42	828.93	0.42100
1906 *UK*.	12.9	1906 Mai 14.5	102 21 52	131 2 1	12 20 4	776.69	0.43984
1906 *VW*.	—	1906 Nov. 11.5	190 13 12	207 30 36	9 19 42	799.40	0.43150
1906 *VX*.	—	1906 Nov. 11.5	350 31 6	46 39 30	7 44 30	588.99	0.51994
1906 *WD*.	—	1906 Okt. 26.5	195 49 0	203 7 0	48 8 0	387	0.6595
1907 *XV*.	—	1907 März 12.5	68 19 30	82 27 36	10 52 24	567.56	0.53000
1907 *YR* .	—	1907 April 18.5	85 46 47	97 13 3	6 59 40	470.40	0.58510

[a] Mittleres Äquinoktium des Jahresanfangs.

Nr. und Name	Tag der Opp.	Gr.	12^h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
673 [1908 *EA*] . .	Jan. 0	12.9	6 36.5	+19 47	1.0	0	0.256	1908
237 Coelestina . .	1	13.2	6 45.1	+27 1	1.0	+ 4	0.296	1901
547 Praxedis . . .	2	12.1	6 48.2	− 4 38	0.9	+ 1	0.192	1908
510 Mabella	2	13.9	6 52.3	+ 9 14	0.9	+ 1	0.332	1908
672 [1908 *DY*] . .	5	14.0	7 3.7	+37 13	1.2	0	0.282	1908
103 Hera	7	10.6	7 9.7	+18 22	1.0	+ 3	0.276	1908
158 Koronis	7	12.1	7 11.6	+22 17	1.0	+ 1	0.247	1908
591 [1906 *TP*] . .	8	13.3	7 14.5	+37 56	1.3	− 2	0.193	1906
229 Adelinda . . .	9	13.9	7 18.5	+25 7	0.8	+ 2	0.436	1900
88 Thisbe	10	11.6	7 20.3	+20 40	1.0	+ 1	0.343	1908
491 Carina	10	12.5	7 25.9	− 2 57	0.8	+ 4	0.342	1908
572 [1905 *RB*] . .	11	12.6	7 31.6	+ 4 44	0.9	+ 3	0.084	1905
116 Sirona	11	10.1	7 32.4	+26 7	1.0	+ 3	0.170	1906
393 Lampetia . . .	12	12.6	7 33.0	+ 1 35	0.8	+ 2	0.438	1908
258 Tyche	13	11.5	7 38.9	− 0 44	0.9	+ 3	0.256	1908
40 Harmonia . . .	13	9.3	7 39.1	+23 56	1.2	+ 5	0.120	1907
490 Veritas	13	12.4	7 39.3	+ 9 20	0.8	+ 3	0.352	1908
341 California . . .	14	14.0	7 40.7	+30 36	1.2	+ 2	0.201	1905
670 [1908 *DR*] . .	14	13.6	7 41.8	+11 17	0.9	+ 4	0.280	1908
131 Vala	14	12.3	7 44.9	+27 29	1.1	+ 4	0.173	1908
243 Ida	16	13.2	7 53.2	+21 49	1.0	+ 2	0.250	1906
640 [1907 *ZW*] . .	17	13.3	7 55.7	+ 3 36	0.8	+ 1	0.378	1907
151 Abundantia . .	18	11.8	8 1.5	+31 1	1.1	+ 3	0.192	1904
342 Endymion . .	18	12.1	8 2.8	+ 8 20	1.0	+ 1	0.111	1907
561 Ingwelde . . .	19	13.1	8 3.7	+18 48	0.9	+ 3	0.239	1905
339 Dorothea . . .	19	13.2	8 6.7	+ 8 38	0.8	+ 4	0.360	1907
242 Kriemhild . . .	20	12.0	8 9.0	+ 1 23	0.8	+ 2	0.192	1906
516 Amherstia . .	21	11.0	8 10.2	+31 12	1.2	0	0.233	1908
459 Signe	21	13.1	8 11.1	+38 12	1.2	+ 2	0.143	1900
314 Rosalia	22	14.5	8 14.8	+ 6 28	0.8	+ 5	0.390	1908
427 Galene	23	13.5	8 21.7	+18 54	0.9	+ 2	0.370	1908
350 Ornamenta . .	25	12.3	8 28.0	+39 51	1.0	+10	0.279	1906
128 Nemesis	25	10.8	8 30.5	+26 17	1.0	+ 5	0.262	1908
228 Agathe	26	15.6	8 33.3	+19 22	1.1	+ 3	0.224	1908
546 Herodias . . .	26	11.5	8 33.8	+44 48	1.2	+ 3	0.139	1908
92 Undina	26	11.4	8 35.3	+24 11	0.8	+ 5	0.396	1906
492 Gismonda . . .	27	13.8	8 35.5	+20 59	0.8	+ 3	0.413	1904
412 Elisabetha . .	27	11.9	8 36.1	+25 57	0.9	+ 8	0.242	1906
83 Beatrix	28	11.1	8 39.7	+27 14	1.1	+ 3	0.131	1904
273 Atropos	28	12.4	8 43.7	+ 2 7	0.9	+ 9	0.242	1897

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit					Letzte Beob-achtung
			AR.	Dekl.	Δα	Δδ	Log. Δ	
283 Emma	Jan. 29	12.3	8h 44.6m	+17° 26′	0.9m	+ 2′	0.369	1908
278 Paulina	29	12.4	8 45.0	+29 52	1.0	+ 5	0.210	1908
110 Lydia	29	10.9	8 46.9	+26 46	1.0	+ 6	0.287	1908
*122 Gerda	30	11.3	8 49.5	+15 57	0.8	+ 4	0.330	1908
284 Amalia	Febr. 1	14.0	8 55.7	+ 4 40	1.0	+ 4	0.265	1907
32 Pomona	1	10.3	8 56.5	+ 7 48	0.9	+ 4	0.174	1906
594 [1906 *TW*]	1	14.6	8 56.7	— 3 58	1.0	+15	0.177	1906
639 [1907 *ZT*]	1	12.6	9 0.0	+10 9	0.8	+ 2	0.357	1908
431 Nephele	1	13.5	9 1.1	+17 40	0.8	+ 3	0.429	1908
550 Senta	2	13.0	9 4.3	+ 5 56	1.0	+ 3	0.339	1908
280 Philia	3	13.9	9 5.7	+27 14	1.0	+ 2	0.231	1890
603 [1906 *TI*]	3	13.0	9 6.5	+24 32	1.1	0	0.079	1906
335 Roberta	3	12.4	9 8.0	+14 38	0.9	+ 6	0.271	1907
186 Celuta	4	12.3	9 9.2	+35 43	1.2	+ 2	0.242	1908
520 Franziska	4	13.8	9 9.3	+33 34	1.0	+ 4	0.293	1906
271 Penthesilea	4	12.9	9 10.7	+18 22	0.9	+ 3	0.321	1903
111 Ate	4	10.7	9 10.7	+14 54	1.0	+ 2	0.133	1908
120 Lachesis	5	11.7	9 14.3	+20 58	0.9	+ 2	0.324	1908
300 Geraldina	5	12.7	9 14.4	+17 10	0.8	+ 4	0.372	1906
231 Vindobona	5	12.2	9 16.8	+20 34	0.9	+ 3	0.324	1902
332 Siri	5	13.0	9 17.0	+20 9	0.9	+ 4	0.308	1906
297 Caecilia	6	14.0	9 19.7	+18 48	0.8	+ 2	0.418	1907
301 Bavaria	6	12.9	9 20.6	+14 50	0.9	+ 6	0.264	1903
666 [1908 *DM*]	7	13.9	9 21.8	+ 3 22	0.9	+ 6	0.238	1908
54 Alexandra	7	11.8	9 24.6	+13 40	1.0	+ 2	0.343	1909
294 Felicia	8	15.5	9 26.0	+15 25	0.8	+ 5	0.467	1906
56 Melete	8	12.3	9 26.0	+ 5 13	0.9	+ 5	0.328	1907
252 Clementina	9	13.3	9 32.4	+ 1 42	0.7	+ 5	0.379	1902
*153 Hilda	9	13.2	9 32.5	+ 3 57	0.6	+ 3	0.535	1907
410 Chloris	9	12.4	9 33.4	+25 46	0.9	+ 7	0.307	1908
112 Iphigenia	10	12.2	9 36.0	+14 30	1.0	+ 4	0.241	1906
* 17 Thetis	12	10.4	9 37.9	+16 55	1.0	+ 7	0.210	1908
617 Patroclus	12	13.2	9 38.6	+42 3	0.7	+ 2	0.690	1909
9 Metis	12	8.6	9 41.3	+23 48	1.1	+ 5	0.105	1907
191 Kolga	12	12.2	9 41.8	+ 8 52	0.8	+ 7	0.306	1907
395 Delia	13	13.4	9 43.6	+ 8 38	0.9	+ 4	0.306	1903
584 [1906 *SY*]	14	12.4	9 53.1	+ 0 2	1.0	+ 3	0.262	1906
327 Columbia	15	13.3	9 54.6	+18 35	1.0	+ 3	0.289	1903
250 Bettina	15	11.0	9 56.2	+31 18	1.0	+ 2	0.284	1905
558 Carmen	15	12.1	9 56.5	+13 6	0.8	+ 7	0.265	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
574 [1905 *RD*] . .	Febr. 15	14.2	9 57.4	+14 55	1.2	+ 3	0.099	1905
484 Pittsburghia .	16	13.3	9 59.8	+18 57	0.8	+ 8	0.264	1907
598 [1906 *UC*] . .	16	12.5	10 0.1	+27 18	0.9	+ 6	0.319	1906
394 Arduina . . .	16	14.2	10 0.3	+21 23	0.9	+ 5	0.382	1906
60 Echo	16	10.2	10 0.5	+ 7 10	0.9	+ 7	0.031	1908
45 Eugenia	16	10.5	10 0.6	+12 6	0.9	+ 7	0.227	1906
172 Baucis	17	11.0	10 2.9	+13 10	1.1	+ 2	0.221	1906
525 Adelaide . . .	18	13.4	10 7.0	+13 36	0.8	+ 5	0.328	1904
168 Sibylla	19	11.9	10 9.0	+ 5 38	0.8	+ 4	0.404	1908
391 Ingeborg . . .	19	14.7	10 9.8	−18 58	1.0	+ 9	0.310	1908
* 71 Niobe	19	10.2	10 11.8	− 1 31	1.2	− 4	0.182	1908
415 Palatia	22	11.1	10 18.8	+16 14	0.9	+ 8	0.189	1905
*106 Dione	23	11.8	10 27.4	+16 38	0.8	+ 4	0.385	1909
643 [1907 *ZZ*] . .	24	13.8	10 31.1	−11 47	0.8	+ 5	0.363	1908
230 Athamantis . .	25	10.6	10 33.9	− 7 22	0.9	+ 5	0.185	1907
117 Lomia	25	11.5	10 35.1	+14 59	1.0	+ 1	0.315	1907
421 Zähringia . . .	26	14.8	10 35.1	+ 2 28	0.9	+ 8	0.253	1908
10 Hygiea	26	9.3	10 35.7	+ 4 0	0.8	+ 4	0.305	1909
6 Hebe	26	9.2	10 36.9	+16 9	0.9	+10	0.248	1908
87 Sylvia	27	12.4	10 39.5	+23 58	0.8	+ 4	0.455	1907
601 [1906 *UN*] . .	27	13.1	10 41.1	+ 3 41	0.8	+ 8	0.393	1909
279 Thule	27	14.2	10 41.9	+11 30	0.6	+ 4	0.553	1906
179 Klytaemnestra	28	12.1	10 43.6	− 3 55	0.8	+ 5	0.367	1908
519 Sylvania . . .	28	12.9	10 44.6	+23 56	0.9	+ 4	0.370	1903
33 Polyhymnia . .	28	13.4	10 45.1	+ 9 20	0.8	+ 4	0.452	1904
141 Lumen	März 1	12.3	10 45.9	+ 0 29	1.0	+ 3	0.328	1901
496 Gryphia . . .	1	12.9	10 48.8	+ 2 22	1.0	+ 7	0.055	1902
315 Constantia . .	3	14.9	10 53.5	+ 7 8	1.0	+ 7	0.209	1891
146 Lucina	3	11.0	10 56.6	+28 14	0.8	+ 5	0.230	1906
*170 Maria	3	11.6	10 57.8	−11 55	1.0	+ 1	0.185	1904
20 Massalia . . .	3	8.7	10 58.5	+ 5 38	0.9	+ 6	0.087	1907
407 Arachne . . .	5	12.2	11 5.2	− 4 9	0.9	+ 4	0.256	1908
18 Melpomene . .	6	10.2	11 6.9	+10 4	0.9	+ 9	0.230	1907
123 Brunhild . . .	7	11.8	11 11.4	− 1 52	0.9	+ 4	0.232	1905
357 Ninina	7	12.3	11 11.9	+14 54	0.7	+ 8	0.352	1907
159 Aemilia	7	12.0	11 12.1	+10 12	0.7	+ 6	0.287	1906
426 Hippo	12	11.0	11 27.7	−21 18	1.1	− 1	0.219	1908
674 Rachel	14	10.3	11 35.0	+24 56	0.9	+ 1	0.229	1909
*118 Peitho	14	10.7	11 35.3	+14 52	1.0	+ 4	0.146	1908
*178 Belisana . . .	14	12.0	11 35.4	+ 5 38	0.9	+ 5	0.165	1906

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	Δα	Δδ	Log. Δ	
			h m	° ′	m	′		
100 Hekate	März 15	12.3	11 40.4	+ 8 46	0.7	+ 6	0.378	1909
324 Bamberga . . .	16	11.4	11 44.0	− 6 35	0.8	+ 4	0.409	1909
528 Rezia	17	12.5	11 45.4	+18 32	0.8	+ 3	0.395	1909
115 Thyra	17	11.1	11 45.8	−14 5	1.0	+ 4	0.230	1908
371 Bohemia . . .	17	11.7	11 46.2	−10 48	1.0	+ 4	0.234	1907
209 Dido	18	11.5	11 51.4	+ 1 55	0.8	+ 3	0.318	1901
494 Virtus	19	12.2	11 52.9	+ 8 49	0.8	+ 4	0.285	1905
107 Camilla	19	11.0	11 55.3	+ 1 7	0.6	+ 7	0.379	1907
642 [1907 *ZY*] . .	19	13.0	11 56.7	+ 2 32	0.8	+ 2	0.278	1908
549 Jessonda . . .	20	13.2	11 57.3	− 6 13	0.9	+ 5	0.197	1908
222 Lucia	20	12.6	11 59.3	+ 3 37	0.8	+ 5	0.294	1907
197 Arete	20	13.4	11 59.8	+14 7	0.8	+ 5	0.328	1907
289 Nenetta	21	13.4	12 1.1	− 0 30	0.7	+ 6	0.390	1909
104 Klymene . . .	21	12.4	12 1.9	+ 2 53	0.8	+ 4	0.364	1905
15 Eunomia . . .	23	9.5	12 10.4	−19 0	0.7	+ 3	0.327	1909
442 Eichsfeldia . .	24	11.8	12 13.0	+ 7 23	0.8	+ 9	0.086	1906
185 Eunike	24	11.0	12 14.5	+15 4	0.7	+10	0.322	1907
597 [1906 *UB*] . .	25	13.3	12 14.9	+ 8 6	0.9	+ 4	0.290	1906
414 Liriope	26	13.6	12 17.4	+11 20	0.7	+ 3	0.433	1909
61 Danae	26	11.7	12 20.5	−19 3	0.9	+ 2	0.385	1909
235 Carolina . . .	27	12.2	12 21.4	+11 21	0.8	+ 4	0.278	1900
388 Charybdis . .	27	11.9	12 24.1	− 4 45	0.8	+ 2	0.322	1909
599 [1906 *UI*] . .	28	13.5	12 25.9	+14 49	0.9	+ 3	0.396	1907
566 Stereoskopia .	28	12.0	12 26.2	+ 4 25	0.7	+ 4	0.437	1909
*148 Gallia	28	11.7	12 26.4	+21 11	0.8	+ 9	0.348	1908
304 Olga	29	13.2	12 29.2	+ 8 51	0.8	+10	0.254	1906
612 [1906 *VN*] . .	30	15.3	12 32.2	+ 7 5	0.8	+ 2	0.424	1906
645 [1907 *AG*] . .	30	14.0	12 33.4	− 5 21	0.8	+ 3	0.344	1909
13 Egeria	31	9.5	12 36.2	+14 53	1.1	+ 1	0.172	1906
562 Salome	31	13.3	12 39.7	+11 38	0.8	+ 4	0.354	1909
501 Urhixidur . . .	April 2	13.6	12 44.3	−14 16	0.9	+ 1	0.404	1909
374 Burgundia . .	2	11.3	12 45.0	−11 42	0.8	+ 8	0.211	1906
286 Iclea	2	13.3	12 45.5	+12 39	0.7	+ 8	0.356	1905
81 Terpsichore . .	4	12.6	12 50.3	− 8 0	0.8	+ 3	0.362	1903
649 [1907 *AF*] . .	4	16.1	12 52.3	−12 18	1.0	+ 3	0.319	1907
102 Miriam	5	13.8	12 54.2	− 8 1	0.8	+ 6	0.356	1902
73 Klytia	5	12.2	12 54.3	− 6 21	0.9	+ 5	0.242	1905
311 Claudia	9	12.9	13 11.1	− 2 41	0.8	+ 4	0.268	1905
338 Budrosa	10	12.2	13 12.6	−17 32	0.8	+ 5	0.297	1909
585 [1906 *TA*] . .	10	12.2	13 13.5	− 2 54	0.9	+ 7	0.084	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
175 Andromache .	April 10	12.8	13 15.5	− 7 34	0.7	+ 4	0.401	1909
567 Eleutheria . .	10	12.6	13 18.4	+ 1 28	0.8	+ 3	0.271	1905
453 Tea	13	11.6	13 25.0	−11 28	1.1	+ 2	9.983	1908
48 Doris	13	11.0	13 27.2	− 6 0	0.7	+ 6	0.343	1909
251 Sophia	14	13.9	13 28.1	+ 2 14	0.7	+ 6	0.345	1904
292 Ludovica . . .	14	12.6	13 28.7	+ 0 24	1.0	+ 1	0.200	1899
504 Cora	14	13.6	13 29.8	+10 42	0.8	+ 5	0.349	1909
370 Modestia . . .	14	13.3	13 31.5	−23 30	1.0	+ 6	0.181	1904
366 Vincentina . .	15	12.4	13 33.7	−20 33	0.9	+ 2	0.334	1909
12 Victoria. . . .	15	9.5	13 34.0	−17 31	1.0	+ 8	0.107	1907
432 Pythia	16	10.8	13 35.3	+12 11	0.9	+ 3	0.078	1908
91 Aegina	16	11.6	13 35.7	−10 55	0.9	+ 4	0.235	1907
89 Julia	16	10.8	13 36.2	−36 1	1.1	+ 3	0.289	1909
320 Katharina. . .	16	14.7	13 37.7	−13 41	0.7	+ 6	0.367	1907
266 Aline	19	12.5	13 45.8	−20 0	0.8	+ 7	0.351	1909
497 Iva	19	14.7	13 48.2	−13 58	0.8	+ 4	0.407	1902
325 Heidelberga .	20	13.0	13 50.9	−20 39	0.8	+ 3	0.423	1909
518 Halawe	20	13.6	13 51.0	−10 17	0.9	+ 8	0.209	1903
413 Edburga . . .	21	13.6	13 54.5	+16 46	0.9	+ 4	0.366	1896
523 Ada	21	13.2	13 55.1	−16 57	0.8	+ 5	0.341	1909
180 Garumna . . .	21	13.0	13 55.3	−13 20	0.7	+ 4	0.207	1899
651 [1907 *AN*] . .	22	14.0	14 2.1	−10 27	0.9	+ 2	0.362	1909
352 Gisela	22	12.9	14 3.6	−15 54	1.0	+ 7	0.180	1908
536 Merapi	24	12.1	14 7.0	+ 1 52	0.8	+ 1	0.445	1909
276 Adelheid . . .	24	11.7	14 7.2	−11 31	0.7	+10	0.320	1907
648 [1907 *AE*] . .	24	13.4	14 7.9	−27 33	0.8	+ 5	0.371	1909
587 [1906 *TF*] . .	25	14.1	14 12.6	−58 52	1.8	− 3	0.132	1908
157 Dejanira . . .	27	13.8	14 16.1	− 3 54	1.0	+ 1	0.211	1908
*121 Hermione . . .	27	11.3	14 17.2	− 6 38	0.7	+ 3	0.452	1908
417 Suevia	28	12.0	14 21.5	−10 36	0.8	+ 7	0.161	1909
416 Vaticana . . .	28	10.3	14 21.6	− 4 33	0.9	− 1	0.104	1909
521 Brixia	28	13.4	14 23.4	− 1 26	0.8	+ 3	0.400	1909
471 Papagena . . .	29	11.0	14 25.6	+ 2 25	0.8	+ 2	0.410	1909
655 [1907 *BF*] . .	30	13.0	14 29.7	− 4 52	0.8	+ 4	0.350	1908
214 Aschera. . . .	Mai 1	12.2	14 31.3	−19 56	0.9	+ 4	0.214	1905
94 Aurora	1	11.7	14 31.4	−22 14	0.8	+ 2	0.384	1909
260 Huberta. . . .	1	14.0	14 33.6	− 7 53	0.7	+ 4	0.408	1906
540 Rosamunde . .	1	11.7	14 34.7	−11 34	0.9	+ 8	0.026	1908
560 Delila	2	13.2	14 35.2	− 2 38	0.9	+ 3	0.222	1905
166 Rhodope . . .	2	13.5	14 35.4	+ 3 0	0.9	+ 4	0.356	1909

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
355 Gabriella . . .	Mai 2	13.4	14 36.1	−20 52	1.0	+ 3	0.234	1905
348 May	3	13.1	14 40.1	− 3 47	0.9	+ 2	0.317	1905
78 Diana	3	10.7	14 40.2	−29 34	1.1	+ 4	0.213	1908
530 Turandot . . .	4	12.4	14 42.6	− 2 54	1.0	+ 5	0.345	1909
188 Menippe . . .	5	12.7	14 47.9	−21 54	0.9	+ 8	0.208	1909
362 Havnia	5	11.3	14 50.4	−20 38	1.0	+ 2	0.226	1909
600 [1906 *UM*] . .	7	12.8	14 54.6	+ 0 46	0.8	+ 4	0.191	1909
* 28 Bellona	8	10.1	14 59.1	− 1 57	0.8	+ 4	0.254	1909
361 Bononia. . . .	9	13.9	15 3.4	−26 3	0.7	+ 1	0.535	1909
610 [1906 *VK*] . .	10	16.4	15 6.1	−26 48	1.0	+ 2	0.413	1906
440 Theodora . . .	10	12.8	15 7.9	−20 13	1.0	+ 5	0.116	1906
364 Isara	11	12.5	15 8.9	− 9 2	1.0	+ 2	0.188	1906
249 Ilse	11	14.5	15 11.4	−33 22	1.1	+ 4	0.241	1907
507 Laodica	11	12.9	15 12.5	−30 20	0.8	+ 4	0.389	1909
223 Rosa	12	13.5	15 17.5	−18 23	0.8	+ 2	0.354	1909
423 Diotima	14	11.0	15 23.4	−13 5	0.9	0	0.294	1909
570 [1905 *QX*] . .	15	13.1	15 25.1	−18 32	0.7	+ 3	0.426	1909
526 Jena	16	13.1	15 28.1	−15 36	0.8	+ 3	0.323	1909
349 Dembowska. .	16	10.1	15 28.5	−23 44	0.9	+ 1	0.322	1909
487 Venetia	16	12.3	15 29.3	− 4 34	0.8	+ 3	0.278	1909
49 Pales	17	12.0	15 33.8	−22 47	0.8	+ 3	0.432	1908
408 Fama	17	14.0	15 34.1	−30 43	0.8	+ 3	0.412	1906
646 [1907 *AC*] . .	17	14.5	15 34.3	−30 44	1.1	+ 5	0.118	1907
441 Bathilde . . .	17	12.7	15 36.6	− 9 39	0.9	+ 6	0.266	1909
291 Alice	17	13.6	15 37.5	−16 7	1.0	+ 4	0.096	1901
174 Phaedra. . . .	18	10.8	15 37.6	−40 24	1.1	+ 2	0.170	1909
644 [1907 *AA*] . .	18	13.6	15 39.3	−18 13	0.9	+ 3	0.270	1908
287 Nephthys . . .	19	10.6	15 41.1	− 1 30	0.9	+ 2	0.121	1907
*164 Eva	19	12.0	15 41.3	− 4 34	1.1	− 2	0.279	1905
624 Hektor	19	13.1	15 44.0	−42 23	0.7	+ 1	0.631	1909
267 Tirza	21	13.4	15 49.7	−17 27	0.9	0	0.179	1909
529 Preziosa. . . .	21	13.5	15 50.9	−18 23	0.9	0	0.361	1904
428 Monachia . . .	23	14.3	15 55.0	−27 55	1.2	+ 2	0.210	1897
67 Asia.	23	10.5	15 55.5	−13 22	1.2	+ 7	0.064	1907
433 Eros	23	10.5	15 57.8	−46 32	2.0	+14	9.775	1908
369 Aëria	24	12.9	16 2.8	− 9 26	0.9	0	0.245	1907
618 [1906 *VZ*] . .	24	12.5	16 3.2	− 0 57	0.8	0	0.356	1909
505 Cava	24	13.2	16 6.0	−13 56	0.9	0	0.368	1909
398 Admete	25	14.8	16 6.1	−29 4	1.0	+ 4	0.366	1909
253 Mathilde . . .	26	13.0	16 9.7	−10 47	0.9	+ 4	0.163	1906

Nr. und Name	Tag der Opp.	Gr.	12ʰ Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
608 [1906 *VD*] . .	Mai 27	14.4	16 16.8	−31 45	0.9	+ 3	0.332	1906
205 Martha	28	12.8	16 18.9	−12 12	0.9	+ 5	0.266	1907
386 Siegena	28	11.2	16 21.3	+ 7 11	0.8	+ 3	0.362	1906
653 [1907 *BK*] . .	30	12.8	16 27.9	− 5 50	0.8	0	0.290	1907
563 Suleika	31	12.3	16 29.4	−17 36	0.9	0	0.370	1909
609 [1906 *VF*] . .	31	12.7	16 33.3	−15 39	0.8	+ 2	0.295	1909
397 Vienna	Juni 2	12.8	16 37.7	−14 26	1.0	+ 6	0.241	1906
378 Holmia	3	13.0	16 43.0	−18 50	0.9	+ 3	0.299	1906
64 Angelina . . .	4	10.8	16 45.4	−24 6	1.0	+ 2	0.267	1909
* 76 Freia	4	12.7	16 47.1	−20 34	0.8	+ 2	0.471	1909
659 [1908 *CS*] . .	5	14.1	16 49.6	−28 11	0.6	+ 1	0.588	1909
*108 Hecuba	5	11.6	16 52.3	−28 59	0.9	+ 1	0.334	1909
559 Nanon	6	12.0	16 58.3	−13 11	0.9	− 2	0.186	1909
200 Dynamene . .	7	11.9	16 58.9	−32 15	1.0	+ 2	0.310	1908
360 Carlova	8	12.7	17 2.5	− 8 54	0.8	0	0.402	1908
44 Nysa	9	10.4	17 7.3	−18 7	1.0	+ 1	0.229	1909
409 Aspasia	9	10.2	17 9.1	−17 47	0.9	+ 3	0.147	1909
588 Achilles	10	15.1	17 10.7	−33 18	0.6	+ 1	0.698	1907
652 Jubilatrix . . .	10	13.3	17 12.8	−19 38	1.1	− 5	0.195	1909
* 47 Aglaja	11	10.7	17 15.1	−30 58	1.0	0	0.212	1909
192 Nausikaa . . .	13	9.5	17 24.1	−34 43	1.2	+ 1	0.162	1907
478 Tergeste . . .	13	11.3	17 24.8	−14 25	0.8	+ 3	0.346	1909
145 Adeona	13	11.9	17 27.0	−24 45	1.0	− 3	0.290	1909
556 Phyllis	14	13.0	17 28.6	−26 32	1.0	+ 3	0.227	1909
150 Nuwa	16	11.4	17 37.1	−20 36	0.9	+ 1	0.282	1908
265 Anna	17	9.6	17 39.2	−71 32	2.2	+ 8	0.010	1902
202 Chryseis . . .	18	11.0	17 47.3	−13 27	0.8	− 1	0.355	1904
326 Tamara	18	10.0	17 48.5	−63 47	1.9	−11	9.996	1907
548 Kressida . . .	19	14.0	17 48.9	−21 14	1.0	− 1	0.217	1909
650 [1907 *AM*] . .	19	15.1	17 51.5	−20 9	1.0	+ 1	0.211	1907
457 Alleghenia . .	19	15.2	17 52.4	−17 46	0.9	+ 3	0.341	1900
308 Polyxo	20	10.8	17 53.7	−16 27	0.9	0	0.214	1909
119 Althaea	21	10.6	17 57.2	−14 55	1.0	+ 1	0.205	1909
554 Peraga	21	11.4	17 59.9	−25 31	1.1	+ 1	0.221	1909
647 [1907 *AD*] . .	22	14.4	18 0.4	−20 24	1.0	+ 2	0.267	1907
*176 Idunna	22	12.4	18 2.3	+ 7 1	0.8	+ 2	0.375	1906
187 Lamberta . . .	22	10.3	18 5.1	−41 11	1.1	− 1	0.113	1909
* 53 Kalypso	29	12.6	18 30.7	−17 45	0.9	− 2	0.330	1909
430 Hybris	29	14.1	18 32.4	−13 21	1.0	0	0.374	1897
* 90 Antiope	30	10.8	18 33.6	−24 53	0.9	− 2	0.232	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
			h m	° ′	m	′		
*198 Ampella . . .	Juni 30	10.4	18 35.4	−20 14	1.1	+5	0.083	1908
22 Kalliope	30	10.2	18 37.7	−33 55	1.0	−4	0.325	1909
281 Lucretia . . .	Juli 1	13.4	18 39.2	−31 52	1.2	−3	0.122	1906
* 37 Fides	1	11.1	18 39.5	−27 50	1.0	−1	0.301	1909
274 Philagoria . .	1	13.2	18 41.2	−23 41	0.9	−2	0.270	1905
449 Hamburga . .	2	12.7	18 47.3	−24 12	1.1	−2	0.278	1909
23 Thalia	3	11.5	18 48.2	−31 12	1.0	−3	0.334	1905
483 Seppina	4	12.3	18 49.2	+ 2 36	0.7	−3	0.368	1909
261 Prymno	4	12.1	18 50.8	−23 32	1.1	−3	0.150	1909
611 [1906 *VL*] . .	7	14.3	19 3.6	− 3 41	0.9	−2	0.377	1908
557 Violetta	8	14.2	19 6.5	−23 8	1.0	−1	0.219	1909
506 Marion	9	13.2	19 11.5	−33 57	1.0	+2	0.394	1908
114 Kassandra . .	10	11.5	19 16.5	−15 58	0.9	−2	0.278	1909
124 Alkeste	10	9.9	19 17.1	−17 19	0.9	−2	0.163	1909
24 Themis	11	11.4	19 23.2	−23 10	0.8	−2	0.389	1908
658 [1908 *BW*] . .	12	13.8	19 26.3	−24 4	0.9	−1	0.289	1908
328 Gudrun	13	12.9	19 30.6	−42 37	1.0	0	0.398	1906
218 Bianca	14	11.1	19 31.9	0 0	0.8	−6	0.183	1904
306 Unitas	14	9.7	19 33.2	−14 23	0.9	−7	0.000	1907
656 [1908 *BU*] . .	14	14.1	19 33.7	−21 6	0.8	−2	0.386	1908
480 Hansa	15	11.7	19 36.2	+ 7 9	0.9	+1	0.252	1906
*241 Germania . . .	15	10.8	19 37.4	−18 27	0.9	0	0.265	1909
534 Nassovia . . .	16	13.3	19 39.3	−23 9	0.9	−3	0.321	1909
221 Eos	16	10.8	19 41.4	−13 5	0.8	−5	0.246	1909
605 [1906 *UU*] . .	16	12.6	19 42.0	−46 12	1.2	+1	0.269	1906
533 Sara	16	13.3	19 42.1	−12 15	0.8	−3	0.273	1908
293 Brasilia	18	13.3	19 46.5	−39 30	1.1	−4	0.333	1890
461 Saskia	19	15.2	19 53.7	−19 39	0.8	−2	0.440	1900
607 [1906 *VC*] . .	20	12.5	19 56.7	−17 32	1.0	+4	0.255	1909
63 Ausonia	22	9.1	20 3.0	−27 45	1.1	0	0.044	1909
203 Pompeja . . .	22	12.7	20 3.8	−24 23	0.9	−2	0.244	1909
133 Cyrene	23	10.7	20 8.2	−24 35	0.9	0	0.245	1908
613 [1906 *VP*] . .	23	13.2	20 8.7	−30 14	0.9	−1	0.297	1906
206 Hersilia	23	12.2	20 11.3	−17 31	0.9	−3	0.259	1906
*149 Medusa	25	12.1	20 17.1	−18 40	1.1	−4	0.076	1909
641 [1907 *ZX*] . .	25	14.7	20 19.4	−22 44	1.1	−3	0.111	1907
377 Campania . . .	26	11.6	20 21.6	− 8 37	0.8	−3	0.233	1906
621 [1906 *WI*] . .	27	14.6	20 23.5	−22 11	0.8	−4	0.399	1906
576 Emanuela . . .	27	11.6	20 24.7	−18 6	0.9	+2	0.171	1905
367 Amicitia . . .	27	13.0	20 26.1	−22 37	1.1	−4	0.148	1909

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
498 Tokio	Juli 28	10.0	20 29.1	−27 19	0.8	− 9	0.045	1909
139 Juewa	28	11.5	20 29.1	−33 31	1.0	− 3	0.322	1907
343 Ostara	31	13.4	20 38.8	−24 26	1.0	− 4	0.132	1903
403 Cyane	Aug. 3	12.6	20 50.7	− 4 44	0.8	− 3	0.322	1909
144 Vibilia	3	9.7	20 52.2	−24 50	1.0	− 5	0.089	1905
* 26 Proserpina . .	3	10.3	20 54.9	−23 31	0.9	− 4	0.194	1909
58 Concordia . . .	4	11.7	20 56.8	−13 8	0.8	− 5	0.244	1909
524 Fidelio	4	12.3	20 57.3	−21 6	1.0	0	0.208	1908
245 Vera	6	12.1	21 1.3	−24 50	0.9	− 4	0.263	1907
5 Astraea	6	10.9	21 3.3	−15 39	0.9	− 5	0.313	1905
298 Baptistina . .	8	14.1	21 12.2	−25 12	1.1	− 3	0.168	1907
142 Polana	8	12.1	21 14.0	−14 23	1.0	− 3	0.141	1903
310 Margarita . . .	9	13.8	21 17.6	−10 46	0.8	− 4	0.280	1891
66 Maja	13	12.0	21 29.2	−18 56	0.9	− 3	0.189	1909
14 Irene	13	10.3	21 30.6	−26 16	0.9	− 6	0.273	1907
376 Geometria . .	13	11.1	21 31.4	−11 5	1.0	− 2	0.024	1909
458 Hercynia . . .	13	13.5	21 32.1	−16 9	0.8	− 8	0.250	1905
661 [1908 *CL*] . .	15	12.9	21 37.2	−18 10	0.9	− 1	0.328	1908
445 Edna	15	11.6	21 39.8	+ 6 32	1.0	+ 2	0.223	1905
240 Vanadis . . .	16	12.3	21 40.8	−15 38	0.9	− 5	0.189	1906
303 Josephina . . .	16	12.0	21 42.9	−17 55	0.8	− 2	0.323	1908
337 Devosa	17	11.8	21 44.3	−21 9	1.1	− 3	0.192	1905
51 Nemausa . . .	17	10.2	21 45.3	− 4 34	0.9	− 8	0.175	1907
262 Valda	18	14.0	21 47.9	−26 33	0.9	− 4	0.184	1900
212 Medea	18	12.1	21 50.3	−11 53	0.8	− 3	0.314	1907
553 Kundry	19	13.8	21 54.6	−22 24	0.9	− 6	0.098	1905
577 [1905 *RH*] . .	19	12.3	21 55.4	−13 25	0.8	− 2	0.234	1908
508 Princetonia . .	20	12.3	21 56.5	−33 10	0.8	− 4	0.344	1908
2 Pallas	20	9.0	21 56.7	+ 8 26	0.7	−10	0.371	1908
163 Erigone	20	12.0	21 59.3	−10 29	0.9	− 7	0.197	1906
305 Gordonia . . .	20	13.0	21 59.7	− 6 22	0.7	− 5	0.384	1905
27 Euterpe	21	9.5	22 0.3	−14 29	1.0	− 6	0.174	1907
385 Ilmatar	22	10.9	22 2.3	−19 3	0.9	− 1	0.336	1906
443 Photographica	22	12.6	22 5.2	− 8 20	0.9	− 7	0.111	1909
466 Tisiphone . . .	24	14.0	22 10.1	+ 9 11	0.8	− 1	0.405	1907
573 [1905 *RC*] . .	25	12.6	22 12.7	−14 58	0.9	− 1	0.241	1908
511 Davida	25	9.7	22 12.9	−26 36	0.7	− 7	0.356	1909
346 Hermentaria .	25	11.1	22 13.3	−23 43	0.8	− 6	0.206	1908
156 Xanthippe . .	25	11.6	22 15.9	+ 4 58	0.8	− 6	0.282	1906
233 Asterope . . .	26	10.7	22 17.4	+ 2 24	0.8	− 6	0.145	1906

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
614 [1906 *VQ*] . .	Aug. 29	13.5	22 28.6	+ 1 17	0.8	− 6	0.214	1906
606 [1906 *VB*] . .	29	11.6	22 28.6	− 4 8	1.0	+ 1	0.041	1906
263 Dresda	29	12.9	22 30.6	− 7 27	0.8	− 5	0.232	1906
321 Florentina . .	30	13.2	22 31.6	−13 12	0.8	− 4	0.278	1903
255 Oppavia	30	14.2	22 32.5	−19 16	0.9	− 2	0.294	1904
568 Cheruskia . . .	30	12.0	22 35.1	+21 54	0.8	− 3	0.249	1907
456 Abnoba	31	13.1	22 37.2	+13 9	0.8	− 7	0.280	1909
358 Apollonia . . .	31	12.2	22 38.3	− 7 4	0.7	− 6	0.246	1905
211 Isolda	Sept. 1	11.4	22 42.1	− 2 10	0.8	− 4	0.303	1907
227 Philosophia . .	2	13.1	22 42.3	− 6 3	0.8	− 3	0.358	1908
564 Dudu	3	12.5	22 49.8	−42 28	1.0	− 2	0.102	1905
406 Erna	4	12.4	22 51.8	− 3 53	0.8	− 3	0.147	1905
210 Isabella	6	12.0	22 57.2	−14 10	0.9	− 4	0.186	1906
340 Eduarda . . .	8	12.7	23 7.0	−11 19	0.9	− 4	0.222	1908
268 Adorea	10	13.2	23 13.0	− 7 39	0.7	− 5	0.396	1907
532 Herculina . . .	10	10.6	23 13.8	−25 46	0.8	− 6	0.354	1909
257 Silesia	12	12.5	23 20.1	− 8 45	0.8	− 4	0.290	1907
296 Phaëtusa . . .	12	12.2	23 22.6	− 7 2	0.9	− 7	9.948	1902
657 [1908 *BV*] . .	13	14.3	23 25.5	+10 30	0.9	− 4	0.280	1908
195 Eurykleia . .	14	12.4	23 29.9	− 6 41	0.8	− 3	0.292	1908
*247 Eukrate	15	10.1	23 32.1	−11 52	1.4	+ 5	0.127	1908
182 Elsa	17	10.2	23 38.1	− 6 28	0.9	− 6	0.054	1908
69 Hesperia . . .	18	10.9	23 40.1	+ 0 33	0.8	− 7	0.327	1905
503 Evelyn	18	12.6	23 46.4	− 9 43	0.9	− 3	0.266	1906
167 Urda	19	12.9	23 46.8	− 2 2	0.8	− 6	0.258	1906
372 Palma	19	9.9	23 47.0	+21 56	1.0	+ 2	0.255	1906
*288 Glauke	19	13.4	23 47.3	− 6 54	0.8	− 6	0.350	1908
509 Jolanda	20	11.0	23 47.7	+14 48	0.7	−10	0.254	1909
629 [1907 *XU*. . .	20	14.3	23 49.2	−15 35	0.7	− 5	0.384	1907
538 Friederike . .	21	12.2	23 52.9	− 7 17	0.7	− 7	0.218	1909
486 Cremona . . .	23	14.1	23 59.7	−19 18	1.0	− 7	0.214	1902
583 Klotilde	25	13.5	0 7.7	+13 8	0.7	− 5	0.394	1908
565 Marbachia . .	27	13.5	0 16.1	+13 36	0.9	− 8	0.232	1905
43 Ariadne	28	9.8	0 16.9	+ 8 50	1.0	− 7	0.052	1907
368 Haidea	28	12.7	0 17.5	+11 16	0.8	− 7	0.213	1893
7 Iris	28	7.0	0 20.1	+14 8	0.7	− 4	9.959	1906
615 [1906 *VR*] . .	29	12.7	0 21.1	+ 1 35	0.9	− 5	0.227	1909
654 Zelinda	30	11.5	0 24.0	+35 10	1.1	− 5	0.182	1909
454 Mathesis . . .	Okt. 1	12.2	0 27.0	− 1 46	0.9	− 4	0.279	1908
*134 Sophrosyne . .	1	10.7	0 31.1	+12 19	1.1	− 1	0.142	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
580 [1905 *SE*] . .	Okt. 2	13.3	0 31.7	− 2 41	0.7	− 5	0.277	1905
216 Kleopatra . . .	3	8.5	0 36.7	+15 0	0.6	−13	0.053	1905
616 [1906 *VT*] . .	4	12.7	0 38.3	+11 51	1.1	0	0.191	1908
52 Europa	4	10.3	0 41.1	− 5 45	0.7	− 6	0.323	1907
75 Eurydike . . .	5	9.7	0 41.6	+ 6 47	0.9	− 1	9.976	1907
77 Frigga	6	10.5	0 49.2	+ 6 10	0.9	− 4	0.146	1908
448 Natalie	7	12.6	0 51.0	− 4 47	0.9	0	0.232	1899
537 Pauly	10	12.5	1 3.1	− 9 6	0.8	− 4	0.240	1909
140 Siwa	12	10.8	1 7.1	+ 1 28	0.9	− 5	0.171	1907
165 Loreley	12	11.2	1 8.7	+24 39	0.8	− 3	0.337	1907
531 Zerlina	12	14.5	1 8.9	+ 6 34	0.8	−14	0.312	1904
476 Hedwig	12	11.4	1 9.8	+26 1	0.9	− 6	0.232	1904
161 Athor	13	10.6	1 13.8	+ 8 10	1.1	− 1	0.089	1909
126 Velleda	14	10.9	1 16.2	+ 6 48	1.0	− 5	0.084	1908
1 Ceres	14	7.7	1 17.7	− 7 23	0.8	− 3	0.285	1908
438 Zeuxo	15	13.5	1 20.1	+ 2 18	0.9	− 3	0.215	1906
162 Laurentia . . .	17	12.7	1 29.5	+ 6 56	0.8	− 3	0.347	1905
* 42 Isis	18	9.6	1 31.6	− 5 48	1.1	− 2	0.053	1909
98 Janthe	18	12.0	1 32.1	+24 6	1.1	− 1	0.276	1901
401 Ottilia	18	12.9	1 32.2	+ 7 17	0.7	− 3	0.392	1907
201 Penelope . . .	19	11.0	1 36.1	+ 2 40	0.8	− 6	0.123	1901
207 Hedda	19	12.0	1 37.3	+ 9 45	1.0	− 4	0.131	1908
660 [1908 *CC*] . .	20	10.8	1 38.9	− 8 33	0.8	− 9	0.224	1908
488 Kreusa	22	11.9	1 47.5	− 4 22	0.8	− 3	0.383	1908
239 Adrastea . . .	22	12.7	1 48.0	+ 5 59	0.7	− 7	0.110	1900
31 Euphrosyne . .	23	10.2	1 48.1	+ 8 29	1.2	+ 4	0.239	1907
468 Lina	23	12.1	1 48.8	+11 18	0.8	− 4	0.201	1907
469 Argentina . .	23	13.3	1 52.6	+26 30	0.8	− 3	0.409	1909
160 Una	24	11.4	1 56.7	+14 28	0.9	− 3	0.196	1897
319 Leona	25	13.0	1 59.0	+ 5 31	0.7	− 8	0.233	1904
637 [1907 *YE*] . .	26	14.4	2 2.2	+12 44	0.8	− 4	0.390	1907
62 Erato	30	11.3	2 13.0	+ 9 34	0.9	− 4	0.200	1907
4 Vesta	31	6.9	2 21.1	+ 2 33	1.0	− 3	0.187	1908
194 Prokne	Nov. 3	10.0	2 33.7	−12 32	0.8	− 6	0.150	1908
312 Pierretta . . .	4	13.0	2 33.9	+23 19	1.0	− 3	0.322	1908
351 Yrsa	4	12.1	2 37.9	+ 2 4	0.9	− 3	0.233	1907
581 Tauntonia . .	4	13.6	2 38.2	−15 41	0.8	0	0.342	1907
545 Messalina . . .	5	12.3	2 38.3	+31 28	0.9	− 3	0.354	1907
259 Aletheia . . .	5	12.7	2 38.4	+ 3 31	0.8	− 2	0.394	1905
354 Eleonora . . .	6	10.2	2 43.1	−12 27	0.8	− 2	0.290	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beob-achtung
			h m	° ′	m	′		
579 [1905 *SD*] . .	Nov. 7	11.5	2 48.3	+ 4 50	0.9	— 1	0.303	1908
500 Selinur	7	11.4	2 48.8	+32 3	1.0	— 6	0.133	1908
425 Cornelia . . .	7	13.3	2 49.3	+14 23	0.9	— 3	0.304	1907
34 Circe	8	11.6	2 53.1	+10 51	0.9	— 5	0.244	1908
436 Patricia	8	12.6	2 55.0	+41 34	1.2	— 1	0.311	1904
444 Gyptis	9	10.5	2 56.8	+ 8 11	1.0	— 8	0.169	1909
465 Alekto	9	14.6	2 56.9	+23 8	0.8	— 4	0.470	1908
72 Feronia	10	11.2	3 1.9	+13 54	1.0	— 7	0.109	1909
373 Melusina . . .	12	12.3	3 6.4	+35 54	1.1	0	0.275	1907
479 Caprera	12	11.6	3 10.9	+ 1 9	0.8	— 2	0.065	1907
80 Sappho	13	9.6	3 11.9	+14 21	0.9	—10	9.991	1908
619 [1906 *WC*] . .	13	11.8	3 12.2	+ 2 6	0.9	— 2	0.151	1909
527 Euryanthe . .	13	12.4	3 12.5	+ 2 42	0.9	— 2	0.225	1909
470 Kilia	17	12.3	3 27.6	+ 8 33	1.0	— 5	0.216	1908
36 Atalante . . .	17	10.1	3 30.5	+51 44	1.4	+ 5	0.017	1907
472 Roma	18	10.8	3 36.9	— 7 51	1.0	— 3	0.137	1909
*270 Anahita	19	10.8	3 38.6	+20 51	1.1	— 5	0.052	1909
101 Helena	20	10.6	3 40.6	+36 2	1.2	— 3	0.201	1908
375 Ursula	21	11.1	3 44.6	+43 17	1.1	— 2	0.347	1907
290 Bruna	21	12.7	3 45.5	+56 55	2.0	+13	9.988	1890
462 Eriphyla . . .	21	13.1	3 46.0	+16 8	0.9	— 2	0.243	1909
* 95 Arethusa . . .	21	10.5	3 47.1	+21 48	0.9	— 8	0.215	1909
136 Austria	21	11.3	3 48.1	+ 6 43	1.0	— 6	0.126	1906
627 [1907 *XS*] . .	23	13.2	3 53.3	+10 37	0.9	— 2	0.309	1907
380 Fiducia	24	12.5	4 0.4	+14 58	1.0	— 1	0.218	1905
*190 Ismene	25	11.3	4 1.0	+12 42	0.7	— 3	0.385	1908
204 Kallisto	25	12.8	4 4.2	+13 31	0.9	— 4	0.326	1904
331 Etheridgea . .	26	12.2	4 5.6	+27 6	0.9	— 2	0.277	1905
254 Augusta . . .	28	13.1	4 16.4	+26 4	1.2	— 1	0.167	1902
*184 Dejopeja . . .	28	12.6	4 17.7	+23 3	0.9	— 2	0.363	1908
16 Psyche	29	9.1	4 21.5	+16 34	1.0	— 2	0.218	1908
309 Fraternitas . .	Dez. 1	12.8	4 29.2	+27 48	1.1	— 2	0.224	1891
620 Drakonia . . .	3	13.4	4 37.9	+34 31	1.2	— 1	0.170	1908
* 82 Alkmene . . .	4	10.4	4 43.2	+25 48	1.0	— 1	0.143	1907
* 57 Mnemosyne . .	4	10.1	4 44.7	+ 3 58	0.8	— 4	0.276	1909
* 35 Leukothea . .	5	12.8	4 44.9	+33 38	1.0	— 1	0.374	1907
636 [1907 *XP*] . .	5	12.5	4 46.4	+29 48	1.0	0	0.295	1908
482 Petrina	5	12.5	4 47.5	+ 2 46	0.8	— 2	0.365	1908
313 Chaldaea . . .	5	9.6	4 47.7	+ 1 24	0.9	— 3	0.059	1909
664 [1908 *DH*] . .	8	15.3	4 57.4	+11 28	0.8	— 1	0.469	1908

Nr. und Name	Tag der Opp.	Gr.	12h Mittlere Zeit					Letzte Beobachtung
			AR.	Dekl.	Δα	Δδ	Log. Δ	
			h m	° ′	m	′		
535 Montague . . .	Dez. 9	11.8	5 2.3	+21 13	1.1	+1	0.190	1909
97 Klotho	9	9.0	5 3.5	— 0 1	0.8	+1	0.020	1907
129 Antigone . . .	10	11.3	5 9.3	+ 8 2	0.8	+1	0.395	1908
387 Aquitania . . .	10	10.8	5 9.5	+ 2 37	0.9	+2	0.369	1908
356 Liguria	11	9.4	5 10.2	+38 24	1.1	—1	0.052	1907
232 Russia	11	13.8	5 11.3	+13 50	1.0	—1	0.244	1904
569 Misa	11	11.2	5 11.4	+24 39	0.9	—2	0.072	1909
435 Ella	12	11.9	5 16.5	+25 43	1.1	—1	0.140	1908
143 Adria	12	12.4	5 18.4	+39 40	1.2	—1	0.210	1909
147 Protogeneia . .	13	12.5	5 19.8	+22 40	0.9	—1	0.324	1909
224 Oceana	13	12.0	5 20.1	+32 16	1.1	—1	0.250	1905
217 Eudora	13	13.7	5 20.7	+ 8 23	0.9	0	0.344	1909
420 Bertholda . . .	14	12.1	5 23.7	+20 40	0.8	—2	0.359	1909
578 [1905 *RZ*] . .	14	12.9	5 26.5	+30 16	1.0	0	0.349	1909
541 Deborah . . .	15	13.2	5 29.4	+24 6	1.0	—2	0.292	1909
226 Weringia . . .	16	14.0	5 34.7	+ 5 14	0.9	+2	0.352	1904
665 [1908 *DK*] . .	17	15.0	5 40.2	+34 45	1.0	—3	0.433	1908
213 Lilaea	18	12.4	5 42.3	+17 27	1.0	+1	0.333	1909
25 Phocaea	19	11.6	5 45.2	— 2 43	1.1	—4	0.283	1905
450 Brigitta	19	13.1	5 45.6	+38 14	1.1	0	0.290	1907
* 46 Hestia	19	10.5	5 47.2	+19 37	1.1	0	0.173	1908
495 Eulalia	19	12.0	5 47.5	+19 31	1.1	—1	0.107	1908
512 Taurinensis . .	20	12.3	5 50.2	+17 58	1.2	+6	0.038	1903
604 [1906 *TK*] . .	22	11.4	5 57.0	+30 44	1.0	0	0.214	1906
277 Elvira	23	13.0	6 4.5	+22 23	0.9	0	0.270	1909
345 Tercidina . . .	23	10.9	6 4.7	+ 8 23	1.0	—3	0.086	1909
447 Valentine . . .	23	12.0	6 6.2	+25 48	1.0	+1	0.286	1909
*154 Bertha	23	11.4	6 6.4	+47 57	1.4	+3	0.367	1906
225 Henrietta . . .	24	13.8	6 9.1	— 2 10	0.7	0	0.511	1908
475 Ocllo	24	13.5	6 12.0	+47 52	1.6	+3	0.240	1908
248 Lameia	28	13.3	6 25.2	+20 10	1.1	—1	0.211	1905
135 Hertha	28	11.2	6 29.3	+26 38	1.2	0	0.241	1908
543 Charlotte . . .	29	12.1	6 29.9	+27 46	0.9	—2	0.245	1909
215 Oenone	29	12.8	6 30.7	+25 47	1.0	+1	0.261	1908
451 Patientia . . .	30	10.3	6 36.8	+26 36	1.0	+6	0.273	1907
264 Libussa	31	11.8	6 43.5	+35 40	1.1	+4	0.224	1903
256 Walpurga . . .	32	13.5	6 45.3	+ 3 53	0.8	+1	0.337	1907
384 Burdigala . . .	33	10.9	6 50.1	+30 50	1.1	+3	0.118	1909
439 Ohio	33	12.5	6 51.9	— 5 9	0.8	+1	0.305	1902
552 Sigelinde . . .	33	12.4	6 52.2	+20 27	0.9	0	0.368	1908

Nr. und Name	Tag der Opp.	Gr.	12ʰ Mittlere Zeit AR.	Dekl.	Δα	Δδ	Log. Δ	Letzte Beobachtung
429 Lotis	Dez. 34	12.3	6ʰ 52.8ᵐ	+ 8° 54′	0.7ᵐ	0′	0.185	1909
411 Xanthe	34	13.1	6 53.3	+20 37	0.9	+5	0.363	1907
244 Sita	36	13.7	7 4.2	+17 32	1.2	+1	0.065	1900
630 [1907 *XW*] . .	36	13.0	7 4.7	+22 25	1.0	+8	0.154	1907
437 Rhodia	37	13.6	7 7.8	+18 11	1.1	0	0.258	1907
419 Aurelia	37	12.3	7 8.0	+17 48	1.0	+1	0.349	1908
390 Alma	38	12.5	7 11.9	+29 34	1.2	—4	0.134	1909
455 Bruchsalia . .	38	11.9	7 13.5	+31 21	1.1	+4	0.271	1907
238 Hypatia	38	11.6	7 14.3	+ 3 54	0.9	+2	0.273	1907
575 [1905 *RE*] . .	42	14.0	7 26.8	+42 19	1.3	0	0.264	1909
467 Laura	42	13.9	7 26.9	+27 39	1.0	0	0.242	1901
318 Magdalena . .	42	13.0	7 28.3	+ 9 37	0.8	+4	0.317	1908
138 Tolosa	42	12.6	7 28.6	+26 2	1.1	+3	0.261	1908
196 Philomela . . .	43	10.6	7 30.0	+28 17	0.9	+3	0.345	1908
622 [1906 *WP*] . .	43	12.1	7 30.0	+13 35	1.0	+7	0.065	1908
322 Phaeo	43	12.4	7 32.7	+14 2	1.0	0	0.265	1909
542 Susanna . . .	44	12.9	7 37.4	+ 9 51	0.8	+5	0.301	1909
365 Corduba . . .	45	12.0	7 42.0	+ 2 18	0.9	+3	0.237	1909

Von den mit einem Sternchen (*) bezeichneten Planeten enthält das Jahrbuch Seite (51)—(86) ausführliche Ephemeriden. — Nicht berücksichtigt sind die Planeten: 99, 132, 155, 193, 220, 285, 323, 330, 353, 392, 396, 400, 452, 463, 473, 474, 489, 493, 515, 517.

(122) GERDA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Jan. 14	$9^h\ 1^m\ 46^s.12$	$-41^s.77$	$+15°\ 3'\ 9''.6$	$+3'\ 0''.8$	0.339348	$18^m\ 9^s$
15	9 1 4.35	42.55	15 6 10.4	3 4.5	0.338314	18 6
16	9 0 21.80	43.29	15 9 14.9	3 7.9	0.337333	18 4
17	8 59 38.51	43.99	15 12 22.8	3 11.1	0.336407	18 2
18	8 58 54.52	−44.63	15 15 33.9	+3 14.1	0.335537	17 59
19	8 58 9.89	45.23	+15 18 48.0	3 16.9	0.334723	17 58
20	8 57 24.66	45.78	15 22 4.9	3 19.4	0.333965	17 56
21	8 56 38.88	46.28	15 25 24.3	3 21.8	0.333265	17 54
22	8 55 52.60	46.74	15 28 46.1	3 23.9	0.332624	17 52
23	8 55 5.86	−47.14	15 32 10.0	+3 25.8	0.332041	17 51
24	8 54 18.72	47.50	+15 35 35.8	3 27.5	0.331516	17 50
25	8 53 31.22	47.81	15 39 3.3	3 28.9	0.331051	17 48
26	8 52 43.41	48.07	15 42 32.2	3 30.1	0.330646	17 47
27	8 51 55.34	48.29	15 46 2.3	3 31.1	0.330301	17 47
28	8 51 7.05	−48.46	15 49 33.4	+3 31.9	0.330017	17 46
29	8 50 18.59	48.56	+15 53 5.3	3 32.5	0.329793	17 45
☍ 30	8 49 30.03	48.62	15 56 37.8	3 32.8	0.329631	17 45
31	8 48 41.41	48.63	16 0 10.6	3 32.9	0.329529	17 45
Febr. 1	8 47 52.78	48.58	16 3 43.5	3 32.8	0.329489	17 45
2	8 47 4.20	−48.48	16 7 16.3	+3 32.6	0.329509	17 45
3	8 46 15.72	48.32	+16 10 48.9	3 32.0	0.329591	17 45
4	8 45 27.40	48.11	16 14 20.9	3 31.2	0.329733	17 45
5	8 44 39.29	47.85	16 17 52.1	3 30.2	0.329936	17 46
6	8 43 51.44	47.53	16 21 22.3	3 29.1	0.330201	17 46
7	8 43 3.91	−47.15	16 24 51.4	+3 27.7	0.330526	17 47
8	8 42 16.76	46.72	+16 28 19.1	3 26.1	0.330910	17 48
9	8 41 30.04	46.25	16 31 45.2	3 24.3	0.331354	17 49
10	8 40 43.79	45.72	16 35 9.5	3 22.4	0.331856	17 50
11	8 39 58.07	45.13	16 38 31.9	3 20.2	0.332416	17 52
12	8 39 12.94	−44.49	16 41 52.1	+3 17.8	0.333034	17 53
13	8 38 28.45	43.80	+16 45 9.9	3 15.2	0.333708	17 55
14	8 37 44.65	43.06	16 48 25.1	3 12.4	0.334438	17 57
15	8 37 1.59	42.28	16 51 37.5	3 9.6	0.335224	17 59
16	8 36 19.31	41.45	16 54 47.1	3 6.6	0.336064	18 1
17	8 35 37.86	−40.58	16 57 53.7	+3 3.4	0.336957	18 3
18	8 34 57.28	39.66	+17 0 57.1	3 0.0	0.337903	18 5
19	8 34 17.62		17 3 57.1		0.338899	18 8

Opp. in AR. Jan. 30 Größe = 11.3

P. Neugebauer.

(153) HILDA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ' "	' "		m s
Jan. 26	9 40 47.30	−33.66	+3 22 17.2	+2 0.0	0.542369	28 58
27	9 40 13.64	34.08	3 24 17.2	2 5.2	0.541596	28 55
28	9 39 39.56	34.49	3 26 22.4	2 10.3	0.540858	28 52
29	9 39 5.07	34.87	3 28 32.7	2 15.2	0.540155	28 49
30	9 38 30.20	−35.21	3 30 47.9	+2 20.0	0.539488	28 46
31	9 37 54.99	35.52	+3 33 7.9	2 24.8	0.538857	28 44
Febr. 1	9 37 19.47	35.82	3 35 32.7	2 29.4	0.538263	28 42
2	9 36 43.65	36.09	3 38 2.1	2 33.8	0.537706	28 39
3	9 36 7.56	36.33	3 40 35.9	2 38.2	0.537187	28 37
4	9 35 31.23	−36.54	3 43 14.1	+2 42.4	0.536705	28 36
5	9 34 54.69	36.72	+3 45 56.5	2 46.4	0.536261	28 34
6	9 34 17.97	36.87	3 48 42.9	2 50.4	0.535856	28 32
7	9 33 41.10	36.99	3 51 33.3	2 54.2	0.535490	28 31
8	9 33 4.11	37.09	3 54 27.5	2 57.9	0.535163	28 30
☍ 9	9 32 27.02	−37.15	3 57 25.4	+3 1.4	0.534875	28 28
10	9 31 49.87	37.18	+4 0 26.8	3 4.7	0.534627	28 27
11	9 31 12.69	37.17	4 3 31.5	3 8.0	0.534419	28 26
12	9 30 35.52	37.14	4 6 39.5	3 11.0	0.534251	28 26
13	9 29 58.38	37.07	4 9 50.5	3 14.0	0.534122	28 25
14	9 29 21.31	−36.97	4 13 4.5	+3 16.7	0.534031	28 25
15	9 28 44.34	36.84	+4 16 21.2	3 19.2	0.533980	28 25
16	9 28 7.50	36.67	4 19 40.4	3 21.6	0.533968	28 25
17	9 27 30.83	36.48	4 23 2.0	3 23.8	0.533996	28 25
18	9 26 54.35	36.26	4 26 25.8	3 25.8	0.534064	28 25
19	9 26 18.09	−36.02	4 29 51.6	+3 27.7	0.534170	28 25
20	9 25 42.07	35.75	+4 33 19.3	3 29.5	0.534315	28 26
21	9 25 6.32	35.45	4 36 48.8	3 31.1	0.534499	28 27
22	9 24 30.87	35.13	4 40 19.9	3 32.5	0.534721	28 28
23	9 23 55.74	34.78	4 43 52.4	3 33.7	0.534982	28 29
24	9 23 20.96	−34.40	4 47 26.1	+3 34.9	0.535280	28 30
25	9 22 46.56	33.99	+4 51 1.0	3 35.8	0.535615	28 31
26	9 22 12.57	33.56	4 54 36.8	3 36.6	0.535987	28 33
27	9 21 39.01	33.11	4 58 13.4	3 37.2	0.536395	28 34
28	9 21 5.90	32.63	5 1 50.6	3 37.7	0.536840	28 36
März 1	9 20 33.27	−32.13	5 5 28.3	+3 38.1	0.537321	28 38
2	9 20 1.14	31.61	+5 9 6.4	3 38.2	0.537838	28 40
3	9 19 29.53		5 12 44.6		0.538390	28 42

Opp. in AR. Febr. 9 Gröfse = 13.2

P. Neugebauer.

(17) THETIS 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Jan. 26	9 53 5.44	−46.94	+14 58 4.1	+6 34.0	0.224842	13 57
27	9 52 18.50	48.07	15 4 38.1	6 38.8	0.223377	13 53
28	9 51 30.43	49.15	15 11 16.9	6 43.0	0.221978	13 50
29	9 50 41.28	50.15	15 17 59.9	6 46.8	0.220646	13 48
30	9 49 51.13	−51.10	15 24 46.7	+6 50.3	0.219382	13 46
31	9 49 0.03	52.00	+15 31 37.0	6 53.3	0.218188	13 44
Febr. 1	9 48 8.03	52.85	15 38 30.3	6 55.7	0.217064	13 42
2	9 47 15.18	53.63	15 45 26.0	6 57.7	0.216012	13 40
3	9 46 21.55	54.33	15 52 23.7	6 59.2	0.215033	13 38
4	9 45 27.22	−54.98	15 59 22.9	+7 0.3	0.214128	13 36
5	9 44 32.24	55.57	+16 6 23.2	7 1.0	0.213298	13 35
6	9 43 36.67	56.09	16 13 24.2	7 1.1	0.212544	13 33
7	9 42 40.58	56.53	16 20 25.3	7 0.8	0.211868	13 32
8	9 41 44.05	56.90	16 27 26.1	7 0.2	0.211269	13 31
9	9 40 47.15	−57.21	16 34 26.3	+6 59.0	0.210747	13 30
10	9 39 49.94	57.45	+16 41 25.3	6 57.3	0.210303	13 29
11	9 38 52.49	57.60	16 48 22.6	6 55.2	0.209937	13 28
☍ 12	9 37 54.89	57.68	16 55 17.8	6 52.7	0.209650	13 28
13	9 36 57.21	57.67	17 2 10.5	6 49.6	0.209441	13 27
14	9 35 59.54	−57.60	17 9 0.1	+6 46.0	0.209312	13 27
15	9 35 1.94	57.45	+17 15 46.1	6 42.1	0.209261	13 27
16	9 34 4.49	57.23	17 22 28.2	6 37.8	0.209289	13 27
17	9 33 7.26	56.93	17 29 6.0	6 33.0	0.209393	13 27
18	9 32 10.33	56.55	17 35 39.0	6 28.0	0.209571	13 28
19	9 31 13.78	−56.11	17 42 7.0	+6 22.6	0.209825	13 28
20	9 30 17.67	55.60	+17 48 29.6	6 16.7	0.210153	13 29
21	9 29 22.07	55.02	17 54 46.3	6 10.5	0.210556	13 30
22	9 28 27.05	54.37	18 0 56.8	6 4.1	0.211034	13 30
23	9 27 32.68	53.67	18 7 0.9	5 57.5	0.211586	13 31
24	9 26 39.01	−52.91	18 12 58.4	+5 50.5	0.212210	13 33
25	9 25 46.10	52.07	+18 18 48.9	5 43.2	0.212905	13 34
26	9 24 54.03	51.17	18 24 32.1	5 35.7	0.213669	13 35
27	9 24 2.86	50.22	18 30 7.8	5 27.9	0.214501	13 37
28	9 23 12.64	49.22	18 35 35.7	5 19.9	0.215401	13 39
März 1	9 22 23.42	−48.15	18 40 55.6	+5 11.6	0.216366	13 40
2	9 21 35.27	47.02	+18 46 7.2	5 3.0	0.217396	13 42
3	9 20 48.25		18 51 10.2		0.218491	13 44

Opp. in AR. Febr. 12 Gröſse = 10.4

P. Neugebauer.

(71) NIOBE 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 7	10 25 38.58	−64.46	−0 30 43.7	−5 45.3	0.196918	13 4
8	10 24 34.12	65.54	0 36 29.0	5 37.5	0.195261	13 1
9	10 23 28.58	66.56	0 42 6.5	5 29.6	0.193675	12 59
10	10 22 22.02	67.52	0 47 36.1	5 21.7	0.192161	12 56
11	10 21 14.50	−68.40	0 52 57.8	−5 13.8	0.190720	12 53
12	10 20 6.10	69.21	−0 58 11.6	5 6.0	0.189353	12 51
13	10 18 56.89	69.95	1 3 17.6	4 58.1	0.188063	12 49
14	10 17 46.94	70.61	1 8 15.7	4 50.3	0.186851	12 47
15	10 16 36.33	71.20	1 13 6.0	4 42.5	0.185718	12 45
16	10 15 25.13	−71.70	1 17 48.5	−4 34.6	0.184624	12 43
17	10 14 13.43	72.13	−1 22 23.1	4 26.8	0.183691	12 41
18	10 13 1.30	72.49	1 26 49.9	4 19.1	0.182798	12 39
♂ 19	10 11 48.81	72.76	1 31 9.0	4 11.5	0.181986	12 38
20	10 10 36.05	72.94	1 35 20.5	4 3.9	0.181256	12 37
21	10 9 23.11	−73.05	1 39 24.4	−3 56.2	0.180609	12 36
22	10 8 10.06	73.08	−1 43 20.6	3 48.7	0.180046	12 35
23	10 6 56.98	73.03	1 47 9.3	3 41.2	0.179567	12 34
24	10 5 43.95	72.89	1 50 50.5	3 33.8	0.179171	12 33
25	10 4 31.06	72.68	1 54 24.3	3 26.5	0.178856	12 33
26	10 3 18.38	−72.40	1 57 50.8	−3 19.2	0.178623	12 32
27	10 2 5.98	72.03	−2 1 10.0	3 12.2	0.178472	12 32
28	10 0 53.95	71.57	2 4 22.2	3 5.3	0.178404	12 32
März 1	9 59 42.38	71.02	2 7 27.5	2 58.5	0.178418	12 32
2	9 58 31.36	70.40	2 10 26.0	2 51.9	0.178514	12 32
3	9 57 20.96	−69.72	2 13 17.9	−2 45.4	0.178692	12 32
4	9 56 11.24	68.96	−2 16 3.3	2 39.1	0.178950	12 33
5	9 55 2.28	68.11	2 18 42.4	2 32.9	0.179288	12 33
6	9 53 54.17	67.19	2 21 15.3	2 27.0	0.179704	12 34
7	9 52 46.98	66.21	2 23 42.3	2 21.3	0.180198	12 35
8	9 51 40.77	−65.15	2 26 3.6	−2 15.8	0.180769	12 36
9	9 50 35.62	64.00	−2 28 19.4	2 10.6	0.181415	12 37
10	9 49 31.62	62.80	2 30 30.0	2 5.6	0.182136	12 38
11	9 48 28.82	61.53	2 32 35.6	2 0.9	0.182931	12 40
12	9 47 27.29	60.19	2 34 36.5	1 56.5	0.183796	12 41
13	9 46 27.10	−58.77	2 36 33.0	−1 52.3	0.184731	12 43
14	9 45 28.33	57.27	−2 38 25.3	1 48.5	0.185735	12 45
15	9 44 31.06		2 40 13.8		0.186805	12 46

Opp. in AR. Febr. 19 Gröfse = 10.2

P. Neugebauer.

(106) DIONE 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 7	10 39 24.84	−41.73	+15 23 18.4	+4 47.5	0.387818	20 18
8	10 38 43.11	42.35	15 28 5.9	4 48.0	0.387268	20 16
9	10 38 0.76	42.94	15 32 53.9	4 48.2	0.386770	20 15
10	10 37 17.82	43.48	15 37 42.1	4 48.0	0.386324	20 13
11	10 36 34.34	−43.99	15 42 30.1	+4 47.4	0.385930	20 12
12	10 35 50.35	44.45	+15 47 17.5	4 46.4	0.385589	20 11
13	10 35 5.90	44.88	15 52 3.9	4 45.2	0.385302	20 11
14	10 34 21.02	45.25	15 56 49.1	4 43.6	0.385068	20 10
15	10 33 35.77	45.59	16 1 32.7	4 41.8	0.384888	20 9
16	10 32 50.18	−45.88	16 6 14.5	+4 39.8	0.384763	20 9
17	10 32 4.30	46.14	+16 10 54.3	4 37.4	0.384692	20 9
18	10 31 18.16	46.35	16 15 31.7	4 34.7	0.384676	20 9
19	10 30 31.81	46.51	16 20 6.4	4 31.7	0.384713	20 9
20	10 29 45.30	46.63	16 24 38.1	4 28.5	0.384805	20 9
21	10 28 58.67	−46.71	16 29 6.6	+4 25.0	0.384951	20 9
22	10 28 11.96	46.75	+16 33 31.6	4 21.4	0.385152	20 10
☍ 23	10 27 25.21	46.73	16 37 53.0	4 17.4	0.385407	20 11
24	10 26 38.48	46.68	16 42 10.4	4 13.2	0.385715	20 12
25	10 25 51.80	46.59	16 46 23.6	4 8.8	0.386077	20 13
26	10 25 5.21	−46.45	16 50 32.4	+4 4.4	0.386493	20 14
27	10 24 18.76	46.25	+16 54 36.8	3 59.4	0.386961	20 15
28	10 23 32.51	46.01	16 58 36.2	3 54.4	0.387483	20 17
März 1	10 22 46.50	45.74	17 2 30.6	3 49.2	0.388057	20 18
2	10 22 0.76	45.42	17 6 19.8	3 43.8	0.388683	20 20
3	10 21 15.34	−45.06	17 10 3.6	+3 38.1	0.389362	20 22
4	10 20 30.28	44.66	+17 13 41.7	3 32.3	0.390092	20 24
5	10 19 45.62	44.20	17 17 14.0	3 26.4	0.390871	20 26
6	10 19 1.42	43.71	17 20 40.4	3 20.2	0.391700	20 29
7	10 18 17.71	43.18	17 24 0.6	3 13.9	0.392579	20 31
8	10 17 34.53	−42.61	17 27 14.5	+3 7.5	0.393506	20 34
9	10 16 51.92	41.99	+17 30 22.0	3 0.9	0.394481	20 36
10	10 16 9.93	41.33	17 33 22.9	2 54.1	0.395504	20 38
11	10 15 28.60	40.64	17 36 17.0	2 47.3	0.396573	20 41
12	10 14 47.96	39.92	17 39 4.3	2 40.3	0.397688	20 44
13	10 14 8.04	−39.15	17 41 44.6	+2 33.1	0.398847	20 48
14	10 13 28.89	38.35	+17 44 17.7	2 25.8	0.400049	20 52
15	10 12 50.54		17 46 43.5		0.401294	20 56

Opp. in AR. Febr. 23 Gröſse = 11.8

P. Neugebauer.

(170) MARIA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 21	11 7 53.69	−57.97	−11 50 29.0	−1 28.9	0.192196	12 56
22	11 6 55.72	58.68	11 51 57.9	1 14.3	0.191201	12 54
23	11 5 57.04	59.34	11 53 12.2	0 59.9	0.190273	12 53
24	11 4 57.70	59.93	11 54 12.1	0 45.6	0.189413	12 51
25	11 3 57.77	−60.45	11 54 57.7	−0 31.4	0.188624	12 50
26	11 2 57.32	60.90	−11 55 29.1	0 17.3	0.187907	12 48
27	11 1 56.42	61.27	11 55 46.4	−0 3.4	0.187262	12 47
28	11 0 55.15	61.56	11 55 49.8	+0 10.3	0.186690	12 46
März 1	10 59 53.59	61.78	11 55 39.5	0 23.8	0.186192	12 45
2	10 58 51.81	−61.94	11 55 15.7	+0 37.2	0.185769	12 45
☍ 3	10 57 49.87	62.03	−11 54 38.5	0 50.4	0.185421	12 44
4	10 56 47.84	62.04	11 53 48.1	1 3.3	0.185149	12 44
5	10 55 45.80	61.99	11 52 44.8	1 16.0	0.184952	12 43
6	10 54 43.81	61.87	11 51 28.8	1 28.3	0.184831	12 43
7	10 53 41.94	−61.68	11 50 0.5	+1 40.4	0.184786	12 43
8	10 52 40.26	61.41	−11 48 20.1	1 52.3	0.184817	12 43
9	10 51 38.85	61.07	11 46 27.8	2 3.8	0.184925	12 43
10	10 50 37.78	60.66	11 44 24.0	2 14.8	0.185110	12 43
11	10 49 37.12	60.19	11 42 9.2	2 25.4	0.185372	12 44
12	10 48 36.93	−59.65	11 39 43.8	+2 35.7	0.185709	12 45
13	10 47 37.28	59.04	−11 37 8.1	2 45.6	0.186122	12 45
14	10 46 38.24	58.36	11 34 22.5	2 54.8	0.186611	12 46
15	10 45 39.88	57.60	11 31 27.7	3 3.6	0.187174	12 47
16	10 44 42.28	56.77	11 28 24.1	3 12.1	0.187810	12 48
17	10 43 45.51	−55.86	11 25 12.0	+3 20.0	0.188518	12 49
18	10 42 49.65	54.90	−11 21 52.0	3 27.4	0.189298	12 51
19	10 41 54.75	53.88	11 18 24.6	3 34.3	0.190149	12 52
20	10 41 0.87	52.79	11 14 50.3	3 40.8	0.191069	12 54
21	10 40 8.08	51.64	11 11 9.5	3 46.8	0.192058	12 56
22	10 39 16.44	−50.44	11 7 22.7	+3 52.4	0.193114	12 58
23	10 38 26.00	49.17	−11 3 30.3	3 57.4	0.194237	13 0
24	10 37 36.83	47.83	10 59 32.9	4 2.1	0.195424	13 2
25	10 36 49.00	46.44	10 55 30.8	4 6.2	0.196674	13 4
26	10 36 2.56	45.01	10 51 24.6	4 9.9	0.197986	13 6
27	10 35 17.55	−43.53	10 47 14.7	+4 13.2	0.199359	13 9
28	10 34 34.02	42.02	−10 43 1.5	4 15.9	0.200791	13 12
29	10 33 52.00		10 38 45.6		0.202282	13 14

Opp. in AR. März 3 Größe = 11.6

P. Neugebauer.

(118) PEITHO 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 23	11 53 43.28	−51.14	+13 21 35.5	+5 27.0	0.145752	11 37
24	11 52 52.14	52.35	13 27 2.5	5 25.4	0.145042	11 36
25	11 51 59.79	53.49	13 32 27.9	5 23.2	0.144408	11 35
26	11 51 6.30	54.57	13 37 51.1	5 20.5	0.143852	11 34
27	11 50 11.73	−55.58	13 43 11.6	+5 17.0	0.143375	11 33
28	11 49 16.15	56.51	+13 48 28.6	5 13.0	0.142977	11 33
März 1	11 48 19.64	57.37	13 53 41.6	5 8.5	0.142660	11 32
2	11 47 22.27	58.15	13 58 50.1	5 3.5	0.142426	11 32
3	11 46 24.12	58.86	14 3 53.6	4 57.9	0.142275	11 32
4	11 45 25.26	−59.49	14 8 51.5	+4 51.7	0.142207	11 32
5	11 44 25.77	60.04	+14 13 43.2	4 45.0	0.142222	11 32
6	11 43 25.73	60.50	14 18 28.2	4 37.9	0.142320	11 32
7	11 42 25.23	60.87	14 23 6.1	4 30.2	0.142501	11 32
8	11 41 24.36	61.17	14 27 36.3	4 22.2	0.142766	11 33
9	11 40 23.19	−61.38	14 31 58.5	+4 13.6	0.143117	11 33
10	11 39 21.81	61.51	+14 36 12.1	4 4.6	0.143553	11 34
11	11 38 20.30	61.55	14 40 16.7	3 55.2	0.144072	11 35
12	11 37 18.75	61.52	14 44 11.9	3 45.4	0.144676	11 36
13	11 36 17.23	61.39	14 47 57.3	3 35.2	0.145363	11 37
☍ 14	11 35 15.84	−61.17	14 51 32.5	+3 24.6	0.146132	11 38
15	11 34 14.67	60.86	+14 54 57.1	3 13.8	0.146983	11 39
16	11 33 13.81	60.47	14 58 10.9	3 2.6	0.147915	11 41
17	11 32 13.34	60.01	15 1 13.5	2 51.2	0.148926	11 42
18	11 31 13.33	59.47	15 4 4.7	2 39.4	0.150017	11 44
19	11 30 13.86	−58.86	15 6 44.1	+2 27.4	0.151186	11 46
20	11 29 15.00	58.18	+15 9 11.5	2 15.3	0.152431	11 48
21	11 28 16.82	57.43	15 11 26.8	2 3.0	0.153750	11 50
22	11 27 19.39	56.62	15 13 29.8	1 50.5	0.155143	11 53
23	11 26 22.77	55.74	15 15 20.3	1 37.8	0.156609	11 55
24	11 25 27.03	−54.79	15 16 58.1	+1 25.1	0.158146	11 58
25	11 24 32.24	53.79	+15 18 23.2	1 12.4	0.159752	12 0
26	11 23 38.45	52.74	15 19 35.6	0 59.6	0.161426	12 3
27	11 22 45.71	51.62	15 20 35.2	0 46.8	0.163165	12 6
28	11 21 54.09	50.45	15 21 22.0	0 34.1	0.164969	12 9
29	11 21 3.64	−49.21	15 21 56.1	+0 21.6	0.166836	12 12
30	11 20 14.43	47.90	+15 22 17.7	0 9.2	0.168765	12 15
31	11 19 26.53		15 22 26.9		0.170753	12 19

Opp. in AR. März 14 Gröſse = 10.7

P. Neugebauer.

(178) BELISANA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Febr. 15	11 56 29.04	−32.07	+3 20 50.9	+3 54.2	0.196991	13 5
16	11 55 56.97	33.56	3 24 45.1	4 2.5	0.194963	13 1
17	11 55 23.41	35.01	3 28 47.6	4 10.4	0.192988	12 57
18	11 54 48.40	36.43	3 32 58.0	4 18.0	0.191068	12 54
19	11 54 11.97	−37.83	3 37 16.0	+4 25.4	0.189205	12 51
20	11 53 34.14	39.19	+3 41 41.4	4 32.4	0.187400	12 47
21	11 52 54.95	40.49	3 46 13.8	4 39.1	0.185655	12 44
22	11 52 14.46	41.77	3 50 52.9	4 45.5	0.183972	12 41
23	11 51 32.69	43.02	3 55 38.4	4 51.6	0.182353	12 39
24	11 50 49.67	−44.22	4 0 30.0	+4 57.4	0.180798	12 36
25	11 50 5.45	45.37	+4 5 27.4	5 2.7	0.179310	12 33
26	11 49 20.08	46.46	4 10 30.1	5 7.7	0.177890	12 31
27	11 48 33.62	47.52	4 15 37.8	5 12.3	0.176539	12 29
28	11 47 46.10	48.52	4 20 50.1	5 16.5	0.175259	12 26
März 1	11 46 57.58	−49.46	4 26 6.6	+5 20.4	0.174051	12 24
2	11 46 8.12	50.34	+4 31 27.0	5 23.9	0.172917	12 22
3	11 45 17.78	51.15	4 36 50.9	5 26.9	0.171859	12 20
4	11 44 26.63	51.92	4 42 17.8	5 29.4	0.170877	12 19
5	11 43 34.71	52.62	4 47 47.2	5 31.6	0.169972	12 17
6	11 42 42.09	−53.24	4 53 18.8	+5 33.2	0.169144	12 16
7	11 41 48.85	53.80	+4 58 52.0	5 34.4	0.168394	12 15
8	11 40 55.05	54.28	5 4 26.4	5 35.1	0.167724	12 13
9	11 40 0.77	54.70	5 10 1.5	5 35.4	0.167135	12 12
10	11 39 6.07	55.04	5 15 36.9	5 35.1	0.166628	12 12
11	11 38 11.03	−55.30	5 21 12.0	+5 34.3	0.166204	12 11
12	11 37 15.73	55.48	+5 26 46.3	5 33.0	0.165862	12 10
13	11 36 20.25	55.60	5 32 19.3	5 31.2	0.165603	12 10
☍ 14	11 35 24.65	55.63	5 37 50.5	5 28.9	0.165427	12 10
15	11 34 29.02	55.59	5 43 19.4	5 26.0	0.165333	12 10
16	11 33 33.43	−55.47	5 48 45.4	+5 22.8	0.165321	12 10
17	11 32 37.96	55.28	+5 54 8.2	5 19.1	0.165392	12 10
18	11 31 42.68	55.01	5 59 27.3	5 14.8	0.165544	12 10
19	11 30 47.67	54.67	6 4 42.1	5 10.2	0.165778	12 10
20	11 29 53.00	54.26	6 9 52.3	5 5.2	0.166091	12 11
21	11 28 58.74	−53.78	6 14 57.5	+4 59.7	0.166483	12 11
22	11 28 4.96	53.23	+6 19 57.2	4 53.8	0.166954	12 12
23	11 27 11.73		6 24 51.0		0.167502	12 13

Opp. in AR. März 14 Gröſse = 12.0

P. Neugebauer.

(148) GALLIA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
März 17	12 34 40.44	−43.88	+19 23 54.5	+10 37.7	0.344198	18 21
18	12 33 56.56	44.30	19 34 32.2	10 28.2	0.344306	18 22
19	12 33 12.26	44.67	19 45 0.4	10 18.2	0.344470	18 22
20	12 32 27.59	45.00	19 55 18.6	10 7.8	0.344690	18 23
21	12 31 42.59	−45.28	20 5 26.4	+ 9 57.0	0.344967	18 23
22	12 30 57.31	45.50	+20 15 23.4	9 45.8	0.345299	18 24
23	12 30 11.81	45.67	20 25 9.2	9 34.2	0.345687	18 25
24	12 29 26.14	45.79	20 34 43.4	9 22.2	0.346130	18 26
25	12 28 40.35	45.88	20 44 5.6	9 10.0	0.346628	18 27
26	12 27 54.47	−45.94	20 53 15.6	+ 8 57.4	0.347180	18 29
27	12 27 8.53	45.94	+21 2 13.0	8 44.4	0.347787	18 30
☍ 28	12 26 22.59	45.87	21 10 57.4	8 31.2	0.348447	18 32
29	12 25 36.72	45.76	21 19 28.6	8 17.8	0.349159	18 34
30	12 24 50.96	45.61	21 27 46.4	8 4.1	0.349924	18 36
31	12 24 5.35	−45.41	21 35 50.5	+ 7 50.0	0.350740	18 38
April 1	12 23 19.94	45.17	+21 43 40.5	7 35.8	0.351606	18 40
2	12 22 34.77	44.88	21 51 16.3	7 21.4	0.352522	18 42
3	12 21 49.89	44.53	21 58 37.7	7 6.8	0.353488	18 45
4	12 21 5.36	44.14	22 5 44.5	6 52.0	0.354502	18 48
5	12 20 21.22	−43.71	22 12 36.5	+ 6 37.0	0.355563	18 50
6	12 19 37.51	43.24	+22 19 13.5	6 22.0	0.356672	18 53
7	12 18 54.27	42.71	22 25 35.5	6 6.8	0.357827	18 56
8	12 18 11.56	42.14	22 31 42.3	5 51.5	0.359026	19 0
9	12 17 29.42	41.52	22 37 33.8	5 36.1	0.360268	19 3
10	12 16 47.90	−40.86	22 43 9.9	+ 5 20.7	0.361553	19 6
11	12 16 7.04	40.16	+22 48 30.6	5 5.2	0.362879	19 10
12	12 15 26.88	39.43	22 53 35.8	4 49.7	0.364246	19 13
13	12 14 47.45	38.66	22 58 25.5	4 34.2	0.365652	19 17
14	12 14 8.79	37.86	23 2 59.7	4 18.7	0.367096	19 21
15	12 13 30.93	−37.02	23 7 18.4	+ 4 3.2	0.368578	19 25
16	12 12 53.91	36.16	+23 11 21.6	3 47.8	0.370095	19 29
17	12 12 17.75	35.25	23 15 9.4	3 32.6	0.371647	19 33
18	12 11 42.50	34.32	23 18 42.0	3 17.4	0.373232	19 37
19	12 11 8.18	33.37	23 21 59.4	3 2.3	0.374849	19 42
20	12 10 34.81	−32.39	23 25 1.7	+ 2 47.4	0.376497	19 46
21	12 10 2.42	31.39	+23 27 49.1	2 32.7	0.378175	19 51
22	12 9 31.03		23 30 21.8		0.379881	19 55

Opp. in AR. März 28 Gröfse = 11.7

P. Neugebauer.

(121) HERMIONE 1910.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
April 4	14 32 16.24	−33.81	−7 42 32.8	+2 46.1	0.464897	24 14
5	14 31 42.43	34.53	7 39 46.7	2 47.5	0.463869	24 11
6	14 31 7.90	35.21	7 36 59.2	2 48.7	0.462879	24 7
7	14 30 32.69	35.87	7 34 10.5	2 49.7	0.461928	24 4
8	14 29 56.82	−36.50	7 31 20.8	+2 50.6	0.461017	24 1
9	14 29 20.32	37.10	−7 28 30.2	2 51.3	0.460145	23 58
10	14 28 43.22	37.67	7 25 38.9	2 51.8	0.459314	23 55
11	14 28 5.55	38.20	7 22 47.1	2 52.2	0.458524	23 53
12	14 27 27.35	38.71	7 19 54.9	2 52.4	0.457777	23 50
13	14 26 48.64	−39.18	7 17 2.5	+2 52.4	0.457072	23 48
14	14 26 9.46	39.62	−7 14 10.1	2 52.1	0.456409	23 46
15	14 25 29.84	40.03	7 11 18.0	2 51.7	0.455790	23 44
16	14 24 49.81	40.41	7 8 26.3	2 51.3	0.455215	23 42
17	14 24 9.40	40.75	7 5 35.0	2 50.6	0.454683	23 40
18	14 23 28.65	−41.05	7 2 44.4	+2 49.7	0.454196	23 39
19	14 22 47.60	41.33	−6 59 54.7	2 48.7	0.453753	23 37
20	14 22 6.27	41.57	6 57 6.0	2 47.5	0.453354	23 36
21	14 21 24.70	41.78	6 54 18.5	2 46.1	0.453000	23 35
22	14 20 42.92	41.95	6 51 32.4	2 44.7	0.452691	23 34
23	14 20 0.97	−42.09	6 48 47.7	+2 43.1	0.452427	23 33
24	14 19 18.88	42.20	−6 46 4.6	2 41.3	0.452209	23 32
25	14 18 36.68	42.27	6 43 23.3	2 39.3	0.452037	23 32
26	14 17 54.41	42.31	6 40 44.0	2 37.1	0.451911	23 31
☍ 27	14 17 12.10	42.31	6 38 6.9	2 34.8	0.451830	23 31
28	14 16 29.79	−42.28	6 35 32.1	+2 32.4	0.451794	23 31
29	14 15 47.51	42.22	−6 32 59.7	2 29.8	0.451804	23 31
30	14 15 5.29	42.13	6 30 29.9	2 27.0	0.451858	23 31
Mai 1	14 14 23.16	42.00	6 28 2.9	2 24.0	0.451958	23 31
2	14 13 41.16	41.82	6 25 38.9	2 20.9	0.452104	23 32
3	14 12 59.34	−41.62	6 23 18.0	+2 17.7	0.452294	23 32
4	14 12 17.72	41.38	−6 21 0.3	2 14.3	0.452529	23 33
5	14 11 36.34	41.12	6 18 46.0	2 10.8	0.452809	23 34
6	14 10 55.22	40.82	6 16 35.2	2 7.0	0.453133	23 35
7	14 10 14.40	40.47	6 14 28.2	2 3.2	0.453501	23 36
8	14 9 33.93	−40.10	6 12 25.0	+1 59.1	0.453912	23 38
9	14 8 53.83	39.69	−6 10 25.9	1 54.9	0.454366	23 39
10	14 8 14.14		6 8 31.0		0.454863	23 41

Opp. in AR. April 27 Gröfse = 11.3

P. Neugebauer.

(28) BELLONA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
April 16	15h 16m 18s.16	−40s.11	−3° 45′ 45″.8	+5′ 46″.2	0.256951	15m 1s
17	15 15 38.05	41.08	3 39 59.6	5 43.5	0.256161	14 59
18	15 14 56.97	42.01	3 34 16.1	5 40.5	0.255430	14 58
19	15 14 14.96	42.89	3 28 35.6	5 37.2	0.254758	14 56
20	15 13 32.07	−43.72	3 22 58.4	+5 33.6	0.254146	14 55
21	15 12 48.35	44.50	−3 17 24.8	5 29.7	0.253595	14 54
22	15 12 3.85	45.24	3 11 55.1	5 25.4	0.253106	14 53
23	15 11 18.61	45.94	3 6 29.7	5 20.8	0.252680	14 52
24	15 10 32.67	46.58	3 1 8.9	5 15.9	0.252316	14 51
25	15 9 46.09	−47.16	2 55 53.0	+5 10.8	0.252015	14 51
26	15 8 58.93	47.70	−2 50 42.2	5 5.3	0.251779	14 50
27	15 8 11.23	48.19	2 45 36.9	4 59.5	0.251607	14 50
28	15 7 23.04	48.62	2 40 37.4	4 53.4	0.251499	14 50
29	15 6 34.42	48.99	2 35 44.0	4 47.1	0.251455	14 50
30	15 5 45.43	−49.30	2 30 56.9	+4 40.4	0.251477	14 50
Mai 1	15 4 56.13	49.55	−2 26 16.5	4 33.4	0.251564	14 50
2	15 4 6.58	49.76	2 21 43.1	4 26.1	0.251716	14 50
3	15 3 16.82	49.92	2 17 17.0	4 18.6	0.251934	14 50
4	15 2 26.90	50.01	2 12 58.4	4 10.7	0.252218	14 51
5	15 1 36.89	−50.05	2 8 47.7	+4 2.7	0.252567	14 52
6	15 0 46.84	50.03	−2 4 45.0	3 54.4	0.252982	14 53
7	14 59 56.81	49.94	2 0 50.6	3 45.8	0.253462	14 54
☍ 8	14 59 6.87	49.80	1 57 4.8	3 36.9	0.254006	14 55
9	14 58 17.07	49.60	1 53 27.9	3 27.9	0.254615	14 56
10	14 57 27.47	−49.35	1 50 0.0	+3 18.7	0.255289	14 57
11	14 56 38.12	49.04	−1 46 41.3	3 9.2	0.256025	14 59
12	14 55 49.08	48.67	1 43 32.1	2 59.5	0.256824	15 1
13	14 55 0.41	48.24	1 40 32.6	2 49.8	0.257686	15 2
14	14 54 12.17	47.76	1 37 42.8	2 40.0	0.258608	15 4
15	14 53 24.41	−47.23	1 35 2.8	+2 30.0	0.259590	15 6
16	14 52 37.18	46.66	−1 32 32.8	2 19.9	0.260631	15 8
17	14 51 50.52	46.03	1 30 12.9	2 9.7	0.261731	15 11
18	14 51 4.49	45.35	1 28 3.2	1 59.5	0.262888	15 13
19	14 50 19.14	44.63	1 26 3.7	1 49.2	0.264101	15 16
20	14 49 34.51	−43.87	1 24 14.5	+1 38.8	0.265369	15 18
21	14 48 50.64	43.08	−1 22 35.7	1 28.2	0.266692	15 21
22	14 48 7.56		1 21 7.5		0.268069	15 24

Opp. in AR. Mai 8 Gröſse = 10.1

P. Neugebauer.

(164) EVA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
April 28	$16^h\ 2^m\ 47^s.04$	$-52^s.19$	$-4°\ 15'\ 46''.5$	$+0'\ 8''.5$	0.305650	$16^m\ 48^s$
29	16 1 54.85	53.41	4 15 38.0	+0 3.6	0.303810	16 43
30	16 1 1.44	54.59	4 15 34.4	−0 1.4	0.302018	16 39
Mai 1	16 0 6.85	55.73	4 15 35.8	0 6.7	0.300275	16 35
2	15 59 11.12	−56.83	4 15 42.5	−0 12.1	0.298584	16 31
3	15 58 14.29	57.89	−4 15 54.6	0 17.6	0.296945	16 28
4	15 57 16.40	58.91	4 16 12.2	0 23.5	0.295359	16 24
5	15 56 17.49	59.87	4 16 35.7	0 29.5	0.293827	16 21
6	15 55 17.62	60.80	4 17 5.2	0 35.7	0.292350	16 17
7	15 54 16.82	−61.69	4 17 40.9	−0 42.1	0.290930	16 14
8	15 53 15.13	62.51	−4 18 23.0	0 48.7	0.289567	16 11
9	15 52 12.62	63.27	4 19 11.7	0 55.5	0.288264	16 8
10	15 51 9.35	63.96	4 20 7.2	1 2.3	0.287021	16 5
11	15 50 5.39	64.61	4 21 9.5	1 9.3	0.285839	16 3
12	15 49 0.78	−65.22	4 22 18.8	−1 16.5	0.284718	16 0
13	15 47 55.56	65.76	−4 23 35.3	1 23.8	0.283660	15 58
14	15 46 49.80	66.23	4 24 59.1	1 31.2	0.282665	15 56
15	15 45 43.57	66.65	4 26 30.3	1 38.7	0.281733	15 54
16	15 44 36.92	67.02	4 28 9.0	1 46.2	0.280866	15 52
17	15 43 29.90	−67.32	4 29 55.2	−1 53.9	0.280063	15 50
18	15 42 22.58	67.56	−4 31 49.1	2 1.6	0.279324	15 48
☍ 19	15 41 15.02	67.74	4 33 50.7	2 9.4	0.278650	15 47
20	15 40 7.28	67.87	4 36 0.1	2 17.3	0.278041	15 46
21	15 38 59.41	67.95	4 38 17.4	2 25.3	0.277497	15 44
22	15 37 51.46	−67.95	4 40 42.7	−2 33.2	0.277019	15 43
23	15 36 43.51	67.89	−4 43 15.9	2 41.3	0.276606	15 43
24	15 35 35.62	67.78	4 45 57.2	2 49.4	0.276259	15 42
25	15 34 27.84	67.61	4 48 46.6	2 57.5	0.275978	15 41
26	15 33 20.23	67.38	4 51 44.1	3 5.6	0.275763	15 41
27	15 32 12.85	−67.08	4 54 49.7	−3 13.8	0.275613	15 40
28	15 31 5.77	66.72	−4 58 3.5	3 22.0	0.275529	15 40
29	15 29 59.05	66.31	5 1 25.5	3 30.1	0.275509	15 40
30	15 28 52.74	65.84	5 4 55.6	3 38.2	0.275553	15 40
31	15 27 46.90	65.31	5 8 33.8	3 46.4	0.275660	15 40
Juni 1	15 26 41.59	−64.74	5 12 20.2	−3 54.6	0.275830	15 41
2	15 25 36.85	64.14	−5 16 14.8	4 2.8	0.276062	15 41
3	15 24 32.71		5 20 17.6		0.276356	15 42

Opp. in AR. Mai 19 Gröſse = 12.0

P. Neugebauer.

(76) FREIA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Mai 18	16 59 20.19	−40.24	−20 59 45.4	+1 24.5	0.475738	24 51
19	16 58 39.95	40.77	20 58 20.9	1 25.4	0.475098	24 48
20	16 57 59.18	41.27	20 56 55.5	1 26.2	0.474498	24 46
21	16 57 17.91	41.74	20 55 29.3	1 27.0	0.473938	24 44
22	16 56 36.17	−42.18	20 54 2.3	+1 27.8	0.473419	24 43
23	16 55 53.99	42.58	−20 52 34.5	1 28.5	0.472941	24 41
24	16 55 11.41	42.94	20 51 6.0	1 29.2	0.472504	24 40
25	16 54 28.47	43.26	20 49 36.8	1 29.8	0.472109	24 38
26	16 53 45.21	43.55	20 48 7.0	1 30.5	0.471756	24 37
27	16 53 1.66	−43.82	20 46 36.5	+1 31.1	0.471445	24 36
28	16 52 17.84	44.04	−20 45 5.4	1 31.6	0.471177	24 35
29	16 51 33.80	44.22	20 43 33.8	1 32.1	0.470951	24 34
30	16 50 49.58	44.38	20 42 1.7	1 32.5	0.470768	24 34
31	16 50 5.20	44.51	20 40 29.2	1 32.9	0.470628	24 33
Juni 1	16 49 20.69	−44.59	20 38 56.3	+1 33.2	0.470532	24 33
2	16 48 36.10	44.64	−20 37 23.1	1 33.4	0.470480	24 33
3	16 47 51.46	44.65	20 35 49.7	1 33.6	0.470472	24 33
☍ 4	16 47 6.81	44.62	20 34 16.1	1 33.6	0.470507	24 33
5	16 46 22.19	44.55	20 32 42.5	1 33.6	0.470586	24 33
6	16 45 37.64	−44.44	20 31 8.9	+1 33.5	0.470709	24 34
7	16 44 53.20	44.30	−20 29 35.4	1 33.3	0.470875	24 34
8	16 44 8.90	44.13	20 28 2.1	1 33.0	0.471085	24 35
9	16 43 24.77	43.92	20 26 29.1	1 32.6	0.471338	24 36
10	16 42 40.85	43.66	20 24 56.5	1 32.1	0.471634	24 37
11	16 41 57.19	−43.38	20 23 24.4	+1 31.5	0.471973	24 38
12	16 41 13.81	43.06	−20 21 52.9	1 31.0	0.472355	24 39
13	16 40 30.75	42.69	20 20 21.9	1 30.5	0.472779	24 41
14	16 39 48.06	42.29	20 18 51.4	1 29.8	0.473245	24 42
15	16 39 5.77	41.86	20 17 21.6	1 29.1	0.473752	24 44
16	16 38 23.91	−41.41	20 15 52.5	+1 28.2	0.474300	24 46
17	16 37 42.50	40.94	−20 14 24.3	1 27.2	0.474889	24 48
18	16 37 1.56	40.43	20 12 57.1	1 26.2	0.475518	24 50
19	16 36 21.13	39.88	20 11 30.9	1 25.0	0.476186	24 52
20	16 35 41.25	39.31	20 10 5.9	1 23.7	0.476893	24 55
21	16 35 1.94	−38.73	20 8 42.2	+1 22.4	0.477639	24 57
22	16 34 23.21	38.13	−20 7 19.8	1 21.1	0.478423	25 0
23	16 33 45.08		20 5 58.7		0.479244	25 3

Opp. in AR. Juni 4 Größe = 12.7

P. Neugebauer.

(108) HECUBA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Mai 18	17 7 21.29	−45.38	−29 8 24.2	−0 7.6	0.340910	18 13
19	17 6 35.91	46.22	29 8 31.8	−0 3.0	0.340105	18 11
20	17 5 49.69	47.00	29 8 34.8	+0 1.5	0.339349	18 9
21	17 5 2.69	47.74	29 8 33.3	0 6.0	0.338644	18 7
22	17 4 14.95	−48.43	29 8 27.3	+0 10.6	0.337990	18 6
23	17 3 26.52	49.07	−29 8 16.7	0 15.2	0.337389	18 4
24	17 2 37.45	49.67	29 8 1.5	0 19.8	0.336840	18 3
25	17 1 47.78	50.21	29 7 41.7	0 24.4	0.336344	18 2
26	17 0 57.57	50.70	29 7 17.3	0 29.1	0.335900	18 0
27	17 0 6.87	−51.15	29 6 48.2	+0 33.8	0.335511	17 59
28	16 59 15.72	51.56	−29 6 14.4	0 38.4	0.335176	17 59
29	16 58 24.16	51.91	29 5 36.0	0 43.1	0.334896	17 58
30	16 57 32.25	52.20	29 4 52.9	0 47.7	0.334671	17 57
31	16 56 40.05	52.43	29 4 5.2	0 52.4	0.334501	17 57
Juni 1	16 55 47.62	−52.61	29 3 12.8	+0 56.9	0.334388	17 57
2	16 54 55.01	52.73	−29 2 15.9	1 1.5	0.334331	17 56
3	16 54 2.28	52.80	29 1 14.4	1 5.9	0.334330	17 56
4	16 53 9.48	52.81	29 0 8.5	1 10.2	0.334386	17 57
☍ 5	16 52 16.67	52.76	28 58 58.3	1 14.4	0.334499	17 57
6	16 51 23.91	−52.66	28 57 43.9	+1 18.5	0.334669	17 57
7	16 50 31.25	52.49	−28 56 25.4	1 22.5	0.334895	17 58
8	16 49 38.76	52.27	28 55 2.9	1 26.5	0.335177	17 58
9	16 48 46.49	51.99	28 53 36.4	1 30.3	0.335516	17 59
10	16 47 54.50	51.65	28 52 6.1	1 33.8	0.335911	18 0
11	16 47 2.85	−51.26	28 50 32.3	+1 37.3	0.336361	18 2
12	16 46 11.59	50.82	−28 48 55.0	1 40.7	0.336866	18 3
13	16 45 20.77	50.32	28 47 14.3	1 43.9	0.337426	18 4
14	16 44 30.45	49.78	28 45 30.4	1 47.0	0.338040	18 6
15	16 43 40.67	49.19	28 43 43.4	1 50.0	0.338709	18 7
16	16 42 51.48	−48.55	28 41 53.4	+1 52.7	0.339431	18 9
17	16 42 2.93	47.86	−28 40 0.7	1 55.4	0.340205	18 11
18	16 41 15.07	47.13	28 38 5.3	1 58.0	0.341032	18 13
19	16 40 27.94	46.36	28 36 7.3	2 0.3	0.341910	18 15
20	16 39 41.58	45.56	28 34 7.0	2 2.4	0.342838	18 18
21	16 38 56.02	−44.72	28 32 4.6	+2 4.4	0.343817	18 20
22	16 38 11.30	43.85	−28 30 0.2	2 6.1	0.344845	18 23
23	16 37 27.45		28 27 54.1		0.345920	18 26

Opp. in AR. Juni 5 Gröſse = 11.6

P. Neugebauer.

(47) AGLAJA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Mai 18	17 35 35.25	−38.81	−30 37 29.9	−1 52.8	0.238772	14 24
19	17 34 56.44	40.24	30 39 22.7	1 48.8	0.236989	14 20
20	17 34 16.20	41.63	30 41 11.5	1 44.5	0.235256	14 17
21	17 33 34.57	42.99	30 42 56.0	1 40.0	0.233575	14 13
22	17 32 51.58	−44.30	30 44 36.0	−1 35.4	0.231947	14 10
23	17 32 7.28	45.58	−30 46 11.4	1 30.7	0.230373	14 7
24	17 31 21.70	46.82	30 47 42.1	1 25.7	0.228853	14 4
25	17 30 34.88	48.01	30 49 7.8	1 20.7	0.227387	14 1
26	17 29 46.87	49.15	30 50 28.5	1 15.4	0.225978	13 59
27	17 28 57.72	−50.25	30 51 43.9	−1 9.8	0.224627	13 56
28	17 28 7.47	51.29	−30 52 53.7	1 4.1	0.223336	13 54
29	17 27 16.18	52.28	30 53 57.8	0 58.1	0.222106	13 51
30	17 26 23.90	53.21	30 54 55.9	0 52.0	0.220938	13 49
31	17 25 30.69	54.07	30 55 47.9	0 46.0	0.219832	13 47
Juni 1	17 24 36.62	−54.87	30 56 33.9	−0 39.8	0.218790	13 45
2	17 23 41.75	55.61	−30 57 13.7	0 33.5	0.217814	13 43
3	17 22 46.14	56.26	30 57 47.2	0 27.1	0.216903	13 41
4	17 21 49.88	56.84	30 58 14.3	0 20.7	0.216059	13 40
5	17 20 53.04	57.36	30 58 35.0	0 14.2	0.215283	13 38
6	17 19 55.68	−57.80	30 58 49.2	−0 7.7	0.214576	13 37
7	17 18 57.88	58.16	−30 58 56.9	−0 1.2	0.213937	13 36
8	17 17 59.72	58.44	30 58 58.1	+0 5.3	0.213368	13 35
9	17 17 1.28	58.64	30 58 52.8	0 11.7	0.212868	13 34
10	17 16 2.64	58.78	30 58 41.1	0 17.9	0.212438	13 33
☍ 11	17 15 3.86	−58.83	30 58 23.2	+0 24.2	0.212078	13 32
12	17 14 5.03	58.80	−30 57 59.0	0 30.5	0.211789	13 32
13	17 13 6.23	58.70	30 57 28.5	0 36.7	0.211570	13 31
14	17 12 7.53	58.51	30 56 51.8	0 42.8	0.211421	13 31
15	17 11 9.02	58.25	30 56 9.0	0 48.8	0.211342	13 31
16	17 10 10.77	−57.92	30 55 20.2	+0 54.8	0.211333	13 31
17	17 9 12.85	57.52	−30 54 25.4	1 0.8	0.211394	13 31
18	17 8 15.33	57.05	30 53 24.6	1 6.6	0.211524	13 31
19	17 7 18.28	56.50	30 52 18.0	1 12.1	0.211724	13 32
20	17 6 21.78	55.90	30 51 5.9	1 17.4	0.211992	13 32
21	17 5 25.88	−55.24	30 49 48.5	+1 22.6	0.212328	13 33
22	17 4 30.64	54.50	−30 48 25.9	1 27.7	0.212731	13 34
23	17 3 36.14		30 46 58.2		0.213201	13 34

Opp. in AR. Juni 11 Gröſse = 10.7

P. Neugebauer.

(176) IDUNNA 1910.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juni 7	18ʰ 13ᵐ 13ˢ.87	−40ˢ.74	+6° 6′ 41″.0	+4′ 54″.7	0.383562	20ᵐ 6ˢ
8	18 12 33.13	41.35	6 11 35.7	4 44.3	0.382660	20 3
9	18 11 51.78	41.92	6 16 20.0	4 33.7	0.381800	20 1
10	18 11 9.86	42.45	6 20 53.7	4 22.9	0.380982	19 59
11	18 10 27.41	−42.95	6 25 16.6	+4 11.8	0.380206	19 56
12	18 9 44.46	43.40	+6 29 28.4	4 0.6	0.379472	19 54
13	18 9 1.06	43.82	6 33 29.0	3 49.3	0.378782	19 52
14	18 8 17.24	44.20	6 37 18.3	3 37.8	0.378135	19 51
15	18 7 33.04	44.54	6 40 56.1	3 26.2	0.377532	19 49
16	18 6 48.50	−44.84	6 44 22.3	+3 14.3	0.376974	19 47
17	18 6 3.66	45.09	+6 47 36.6	3 2.4	0.376459	19 46
18	18 5 18.57	45.31	6 50 39.0	2 50.4	0.375989	19 45
19	18 4 33.26	45.50	6 53 29.4	2 38.3	0.375564	19 44
20	18 3 47.76	45.64	6 56 7.7	2 26.1	0.375183	19 43
21	18 3 2.12	−45.74	6 58 33.8	+2 13.8	0.374846	19 42
☍ 22	18 2 16.38	45.81	+7 0 47.6	2 1.6	0.374554	19 41
23	18 1 30.57	45.83	7 2 49.2	1 49.2	0.374306	19 40
24	18 0 44.74	45.81	7 4 38.4	1 36.8	0.374103	19 40
25	17 59 58.93	45.75	7 6 15.2	1 24.3	0.373945	19 39
26	17 59 13.18	−45.65	7 7 39.5	+1 11.7	0.373833	19 39
27	17 58 27.53	45.50	+7 8 51.2	0 59.3	0.373766	19 39
28	17 57 42.03	45.32	7 9 50.5	0 46.8	0.373744	19 39
29	17 56 56.71	45.10	7 10 37.3	0 34.2	0.373766	19 39
30	17 56 11.61	44.84	7 11 11.5	0 21.8	0.373832	19 39
Juli 1	17 55 26.77	−44.54	7 11 33.3	+0 9.3	0.373942	19 39
2	17 54 42.23	44.18	+7 11 42.6	−0 3.1	0.374096	19 40
3	17 53 58.05	43.79	7 11 39.5	0 15.6	0.374294	19 40
4	17 53 14.26	43.36	7 11 23.9	0 27.9	0.374536	19 41
5	17 52 30.90	42.88	7 10 56.0	0 40.2	0.374821	19 42
6	17 51 48.02	−42.37	7 10 15.8	−0 52.3	0.375148	19 43
7	17 51 5.65	41.82	+7 9 23.5	1 4.4	0.375518	19 44
8	17 50 23.83	41.23	7 8 19.1	1 16.4	0.375930	19 45
9	17 49 42.60	40.60	7 7 2.7	1 28.2	0.376383	19 46
10	17 49 2.00	39.93	7 5 34.5	1 39.9	0.376877	19 47
11	17 48 22.07	−39.24	7 3 54.6	−1 51.4	0.377411	19 49
12	17 47 42.83	38.50	+7 2 3.2	2 2.6	0.377984	19 50
13	17 47 4.33		7 0 0.6		0.378596	19 52

Opp. in AR. Juni 22 Größe = 12.4

P. Neugebauer.

(53) KALYPSO 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juni 11	18 46 34.41	−47.78	−17 22 11.4	−0 55.8	0.340050	18 11
12	18 45 46.63	48.61	17 23 7.2	0 58.4	0.339051	18 8
13	18 44 58.02	49.40	17 24 5.6	1 1.0	0.338103	18 6
14	18 44 8.62	50.13	17 25 6.6	1 3.7	0.337206	18 4
15	18 43 18.49	−50.83	17 26 10.3	−1 6.2	0.336361	18 2
16	18 42 27.66	51.48	−17 27 16.5	1 8.5	0.335569	18 0
17	18 41 36.18	52.08	17 28 25.0	1 10.9	0.334830	17 58
18	18 40 44.10	52.65	17 29 35.9	1 13.2	0.334145	17 56
19	18 39 51.45	53.16	17 30 49.1	1 15.4	0.333516	17 54
20	18 38 58.29	−53.62	17 32 4.5	−1 17.6	0.332942	17 53
21	18 38 4.67	54.05	−17 33 22.1	1 19.6	0.332423	17 52
22	18 37 10.62	54.43	17 34 41.7	1 21.6	0.331960	17 51
23	18 36 16.19	54.76	17 36 3.3	1 23.6	0.331553	17 50
24	18 35 21.43	55.04	17 37 26.9	1 25.5	0.331203	17 49
25	18 34 26.39	−55.28	17 38 52.4	−1 27.4	0.330911	17 48
26	18 33 31.11	55.46	−17 40 19.8	1 29.1	0.330676	17 48
27	18 32 35.65	55.58	17 41 48.9	1 30.8	0.330499	17 47
28	18 31 40.07	55.66	17 43 19.7	1 32.4	0.330379	17 47
☍ 29	18 30 44.41	55.70	17 44 52.1	1 34.0	0.330318	17 47
30	18 29 48.71	−55.68	17 46 26.1	−1 35.6	0.330315	17 47
Juli 1	18 28 53.03	55.60	−17 48 1.7	1 37.0	0.330370	17 47
2	18 27 57.43	55.47	17 49 38.7	1 38.5	0.330483	17 47
3	18 27 1.96	55.27	17 51 17.2	1 39.8	0.330655	17 47
4	18 26 6.69	55.03	17 52 57.0	1 41.1	0.330886	17 48
5	18 25 11.66	−54.74	17 54 38.1	−1 42.3	0.331175	17 49
6	18 24 16.92	54.40	−17 56 20.4	1 43.5	0.331521	17 50
7	18 23 22.52	53.99	17 58 3.9	1 44.7	0.331925	17 51
8	18 22 28.53	53.53	17 59 48.6	1 45.8	0.332386	17 52
9	18 21 35.00	53.02	18 1 34.4	1 46.8	0.332903	17 53
10	18 20 41.98	−52.47	18 3 21.2	−1 47.8	0.333476	17 54
11	18 19 49.51	51.87	−18 5 9.0	1 48.8	0.334104	17 56
12	18 18 57.64	51.21	18 6 57.8	1 49.7	0.334786	17 57
13	18 18 6.43	50.52	18 8 47.5	1 50.5	0.335522	17 59
14	18 17 15.91	49.79	18 10 38.0	1 51.3	0.336311	18 1
15	18 16 26.12	−49.01	18 12 29.3	−1 52.0	0.337152	18 3
16	18 15 37.11	48.17	−18 14 21.3	1 52.7	0.338044	18 6
17	18 14 48.94		18 16 14.0		0.338986	18 8

Opp. in AR. Juni 29 Gröſse = 12.6

P. Neugebauer.

(90) ANTIOPE 1910.

12^h Mittl. Zeit	AR	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juni 11	$18^h\,48^m\,36^s.26$	$-40^s.59$	$-24°\,19'\,28''.0$	$-1'\,51''.8$	0.246634	$14^m\,40^s$
12	18 47 55.67	41.64	24 21 19.8	1 52.0	0.245310	14 37
13	18 47 14.03	42.65	24 23 11.8	1 52.0	0.244042	14 34
14	18 46 31.38	43.61	24 25 3.8	1 51.9	0.242832	14 32
15	18 45 47.77	−44.51	24 26 55.7	−1 51.5	0.241681	14 30
16	18 45 3.26	45.36	−24 28 47.2	1 51.1	0.240590	14 27
17	18 44 17.90	46.17	24 30 38.3	1 50.6	0.239560	14 25
18	18 43 31.73	46.92	24 32 28.9	1 49.9	0.238591	14 24
19	18 42 44.81	47.62	24 34 18.8	1 49.1	0.237684	14 22
20	18 41 57.19	−48.27	24 36 7.9	−1 48.2	0.236840	14 20
21	18 41 8.92	48.86	−24 37 56.1	1 47.1	0.236059	14 18
22	18 40 20.06	49.39	24 39 43.2	1 45.9	0.235342	14 17
23	18 39 30.67	49.86	24 41 29.1	1 44.6	0.234689	14 16
24	18 38 40.81	50.28	24 43 13.7	1 43.1	0.234101	14 15
25	18 37 50.53	−50.65	24 44 56.8	−1 41.6	0.233579	14 14
26	18 36 59.88	50.95	−24 46 38.4	1 40.0	0.233123	14 13
27	18 36 8.93	51.19	24 48 18.4	1 38.3	0.232735	14 12
28	18 35 17.74	51.36	24 49 56.7	1 36.4	0.232414	14 11
29	18 34 26.38	51.48	24 51 33.1	1 34.5	0.232160	14 11
☍ 30	18 33 34.90	−51.54	24 53 7.6	−1 32.5	0.231974	14 10
Juli 1	18 32 43.36	51.53	−24 54 40.1	1 30.4	0.231857	14 10
2	18 31 51.83	51.45	24 56 10.5	1 28.2	0.231807	14 10
3	18 31 0.38	51.31	24 57 38.7	1 26.0	0.231824	14 10
4	18 30 9.07	51.09	24 59 4.7	1 23.7	0.231910	14 10
5	18 29 17.98	−50.79	25 0 28.4	−1 21.4	0.232063	14 11
6	18 28 27.19	50.43	−25 1 49.8	1 19.0	0.232284	14 11
7	18 27 36.76	50.00	25 3 8.8	1 16.6	0.232572	14 12
8	18 26 46.76	49.52	25 4 25.4	1 14.2	0.232927	14 12
9	18 25 57.24	48.98	25 5 39.6	1 11.7	0.233348	14 13
10	18 25 8.26	−48.36	25 6 51.3	−1 9.2	0.233834	14 14
11	18 24 19.90	47.68	−25 8 0.5	1 6.8	0.234385	14 15
12	18 23 32.22	46.95	25 9 7.3	1 4.4	0.235000	14 16
13	18 22 45.27	46.17	25 10 11.7	1 2.1	0.235678	14 18
14	18 21 59.10	45.34	25 11 13.8	0 59.8	0.236419	14 19
15	18 21 13.76	−44.45	25 12 13.6	−0 57.5	0.237221	14 21
16	18 20 29.31	43.51	−25 13 11.1	0 55.3	0.238084	14 22
17	18 19 45.80		25 14 6.4		0.239007	14 24

Opp. in AR. Juni 30 Gröſse = 10.8

P. Neugebauer.

(198) AMPELLA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juni 11	18h 53m 47s.77	−47s.64	−21° 38′ 32″.1	+4′ 15″.0	0.114872	10m 49s
12	18 53 0.13	49.15	21 34 17.1	4 16.2	0.112537	10 46
13	18 52 10.98	50.61	21 30 0.9	4 17.6	0.110267	10 43
14	18 51 20.37	52.02	21 25 43.3	4 18.9	0.108063	10 39
15	18 50 28.35	−53.37	21 21 24.4	+4 20.3	0.105927	10 36
16	18 49 34.98	54.66	−21 17 4.1	4 21.7	0.103860	10 33
17	18 48 40.32	55.90	21 12 42.4	4 23.1	0.101864	10 30
18	18 47 44.42	57.07	21 8 19.3	4 24.4	0.099942	10 28
19	18 46 47.35	58.17	21 3 54.9	4 25.6	0.098094	10 25
20	18 45 49.18	−59.19	20 59 29.3	+4 26.8	0.096322	10 22
21	18 44 49.99	60.15	−20 55 2.5	4 28.0	0.094628	10 20
22	18 43 49.84	61.03	20 50 34.5	4 29.1	0.093013	10 18
23	18 42 48.81	61.84	20 46 5.4	4 30.2	0.091478	10 15
24	18 41 46.97	62.56	20 41 35.2	4 31.1	0.090023	10 13
25	18 40 44.41	−63.20	20 37 4.1	+4 32.0	0.088651	10 11
26	18 39 41.21	63.78	−20 32 32.1	4 32.8	0.087365	10 10
27	18 38 37.43	64.28	20 27 59.3	4 33.5	0.086165	10 8
28	18 37 33.15	64.68	20 23 25.8	4 34.1	0.085051	10 6
29	18 36 28.47	64.98	20 18 51.7	4 34.6	0.084024	10 5
☍ 30	18 35 23.49	−65.20	20 14 17.1	+4 34.9	0.083084	10 4
Juli 1	18 34 18.29	65.33	−20 9 42.2	4 35.2	0.082233	10 2
2	18 33 12.96	65.36	20 5 7.0	4 35.2	0.081471	10 1
3	18 32 7.60	65.29	20 0 31.8	4 35.2	0.080798	10 0
4	18 31 2.31	65.13	19 55 56.6	4 35.0	0.080216	10 0
5	18 29 57.18	−64.86	19 51 21.6	+4 34.6	0.079725	9 59
6	18 28 52.32	64.50	−19 46 47.0	4 34.0	0.079325	9 58
7	18 27 47.82	64.05	19 42 13.0	4 33.3	0.079016	9 58
8	18 26 43.77	63.50	19 37 39.7	4 32.5	0.078797	9 58
9	18 25 40.27	62.85	19 33 7.2	4 31.4	0.078667	9 58
10	18 24 37.42	−62.12	19 28 35.8	+4 30.1	0.078625	9 58
11	18 23 35.30	61.29	−19 24 5.7	4 28.7	0.078670	9 58
12	18 22 34.01	60.38	19 19 37.0	4 27.1	0.078803	9 58
13	18 21 33.63	59.38	19 15 9.9	4 25.3	0.079023	9 58
14	18 20 34.25	58.30	19 10 44.6	4 23.4	0.079327	9 59
15	18 19 35.95	−57.14	19 6 21.2	+4 21.4	0.079715	9 59
16	18 18 38.81	55.90	−19 1 59.8	4 19.2	0.080186	10 0
17	18 17 42.91		18 57 40.6		0.080739	10 0

Opp. in AR. Juni 30 Größe = 10.4

P. Neugebauer.

(37) FIDES 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juni 15	18 54 49.59	−52.31	−27 27 46.7	−1 43.6	0.311678	17 2
16	18 53 57.28	53.20	27 29 30.3	1 41.5	0.310580	16 59
17	18 53 4.08	54.05	27 31 11.8	1 39.3	0.309536	16 57
18	18 52 10.03	54.85	27 32 51.1	1 36.9	0.308547	16 54
19	18 51 15.18	−55.61	27 34 28.0	−1 34.4	0.307614	16 52
20	18 50 19.57	56.32	−27 36 2.4	1 31.8	0.306737	16 50
21	18 49 23.25	56.97	27 37 34.2	1 29.0	0.305917	16 48
22	18 48 26.28	57.57	27 39 3.2	1 26.1	0.305154	16 46
23	18 47 28.71	58.12	27 40 29.3	1 23.0	0.304449	16 45
24	18 46 30.59	−58.62	27 41 52.3	−1 19.9	0.303802	16 43
25	18 45 31.97	59.07	−27 43 12.2	1 16.6	0.303213	16 42
26	18 44 32.90	59.45	27 44 28.8	1 13.2	0.302683	16 41
27	18 43 33.45	59.79	27 45 42.0	1 9.8	0.302212	16 40
28	18 42 33.66	60.05	27 46 51.8	1 6.1	0.301802	16 39
29	18 41 33.61	−60.25	27 47 57.9	−1 2.3	0.301453	16 38
30	18 40 33.36	60.39	−27 49 0.2	0 58.5	0.301166	16 37
☍ Juli 1	18 39 32.97	60.47	27 49 58.7	0 54.5	0.300940	16 37
2	18 38 32.50	60.48	27 50 53.2	0 50.5	0.300775	16 37
3	18 37 32.02	60.43	27 51 43.7	0 46.4	0.300672	16 36
4	18 36 31.59	−60.32	27 52 30.1	−0 42.3	0.300632	16 36
5	18 35 31.27	60.14	−27 53 12.4	0 38.1	0.300654	16 36
6	18 34 31.13	59.90	27 53 50.5	0 33.9	0.300736	16 36
7	18 33 31.23	59.59	27 54 24.4	0 29.7	0.300880	16 37
8	18 32 31.64	59.22	27 54 54.1	0 25.6	0.301085	16 37
9	18 31 32.42	−58.78	27 55 19.7	−0 21.5	0.301351	16 38
10	18 30 33.64	58.27	−27 55 41.2	0 17.5	0.301677	16 38
11	18 29 35.37	57.70	27 55 58.7	0 13.4	0.302062	16 39
12	18 28 37.67	57.08	27 56 12.1	0 9.3	0.302506	16 40
13	18 27 40.59	56.42	27 56 21.4	0 5.4	0.303009	16 42
14	18 26 44.17	−55.68	27 56 26.8	−0 1.4	0.303569	16 43
15	18 25 48.49	54.90	−27 56 28.2	+0 2.6	0.304187	16 44
16	18 24 53.59	54.08	27 56 25.6	0 6.4	0.304861	16 46
17	18 23 59.51	53.20	27 56 19.2	0 10.2	0.305591	16 48
18	18 23 6.31	52.26	27 56 9.0	0 13.9	0.306375	16 49
19	18 22 14.05	−51.28	27 55 55.1	+0 17.6	0.307213	16 51
20	18 21 22.77	50.27	−27 55 37.5	0 21.2	0.308103	16 53
21	18 20 32.50		27 55 16.3		0.309045	16 56

Opp. in AR. Juli 1   Größe = 11.1

P. Neugebauer.

(241) GERMANIA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Juli 1	19h 48m 58s.16	−45s.95	−18° 26′ 9″.2	+0′ 5″.5	0.273855	15m 36s
2	19 48 12.21	46.72	18 26 3.7	0 3.4	0.272818	15 34
3	19 47 25.49	47.44	18 26 0.3	+0 1.4	0.271839	15 32
4	19 46 38.05	48.10	18 25 58.9	−0 0.4	0.270919	15 30
5	19 45 49.95	−48.71	18 25 59.3	−0 2.3	0.270059	15 28
6	19 45 1.24	49.26	−18 26 1.6	0 3.9	0.269259	15 27
7	19 44 11.98	49.76	18 26 5.5	0 5.5	0.268520	15 25
8	19 43 22.22	50.20	18 26 11.0	0 6.9	0.267843	15 24
9	19 42 32.02	50.59	18 26 17.9	0 8.4	0.267228	15 22
10	19 41 41.43	−50.91	18 26 26.3	−0 9.6	0.266677	15 21
11	19 40 50.52	51.18	−18 26 35.9	0 10.8	0.266188	15 20
12	19 39 59.34	51.40	18 26 46.7	0 11.9	0.265763	15 19
13	19 39 7.94	51.55	18 26 58.6	0 12.8	0.265402	15 18
14	19 38 16.39	51.64	18 27 11.4	0 13.7	0.265105	15 18
☍ 15	19 37 24.75	−51.69	18 27 25.1	−0 14.4	0.264873	15 17
16	19 36 33.06	51.67	−18 27 39.5	0 15.2	0.264704	15 17
17	19 35 41.39	51.59	18 27 54.7	0 15.8	0.264600	15 17
18	19 34 49.80	51.47	18 28 10.5	0 16.2	0.264560	15 17
19	19 33 58.33	51.27	18 28 26.7	0 16.7	0.264584	15 17
20	19 33 7.06	−51.04	18 28 43.4	−0 17.1	0.264672	15 17
21	19 32 16.02	50.73	−18 29 0.5	0 17.3	0.264824	15 17
22	19 31 25.29	50.39	18 29 17.8	0 17.6	0.265039	15 18
23	19 30 34.90	49.98	18 29 35.4	0 17.7	0.265317	15 18
24	19 29 44.92	49.52	18 29 53.1	0 17.7	0.265658	15 19
25	19 28 55.40	−49.02	18 30 10.8	−0 17.8	0.266062	15 20
26	19 28 6.38	48.45	−18 30 28.6	0 17.7	0.266527	15 21
27	19 27 17.93	47.84	18 30 46.3	0 17.6	0.267054	15 22
28	19 26 30.09	47.17	18 31 3.9	0 17.5	0.267642	15 23
29	19 25 42.92	46.46	18 31 21.4	0 17.3	0.268290	15 24
30	19 24 56.46	−45.68	18 31 38.7	−0 17.0	0.268998	15 26
31	19 24 10.78	44.85	−18 31 55.7	0 16.7	0.269765	15 28
Aug. 1	19 23 25.93	43.99	18 32 12.4	0 16.4	0.270590	15 29
2	19 22 41.94	43.07	18 32 28.8	0 16.0	0.271473	15 31
3	19 21 58.87	42.09	18 32 44.8	0 15.5	0.272413	15 33
4	19 21 16.78	−41.08	18 33 0.3	−0 15.0	0.273408	15 35
5	19 20 35.70	40.03	−18 33 15.3	0 14.4	0.274457	15 38
6	19 19 55.67		18 33 29.7		0.275560	15 40

Opp. in AR. Juli 15 Gröſse = 10.8

W. Luther.

(149) MEDUSA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 9	20 33 2.31	−52.58	−17 39 51.4	−3 20.7	0.091469	10 15
10	20 32 9.73	53.88	17 43 12.1	3 25.4	0.089899	10 13
11	20 31 15.85	55.11	17 46 37.5	3 29.8	0.088405	10 11
12	20 30 20.74	56.27	17 50 7.3	3 34.0	0.086988	10 9
13	20 29 24.47	−57.36	17 53 41.3	−3 37.6	0.085650	10 7
14	20 28 27.11	58.39	−17 57 18.9	3 40.9	0.084393	10 5
15	20 27 28.72	59.34	18 0 59.8	3 44.0	0.083218	10 4
16	20 26 29.38	60.21	18 4 43.8	3 46.6	0.082127	10 2
17	20 25 29.17	61.01	18 8 30.4	3 49.0	0.081120	10 1
18	20 24 28.16	−61.74	18 12 19.4	−3 51.1	0.080199	9 59
19	20 23 26.42	62.38	−18 16 10.5	3 52.7	0.079364	9 58
20	20 22 24.04	62.92	18 20 3.2	3 54.1	0.078617	9 57
21	20 21 21.12	63.40	18 23 57.3	3 55.2	0.077958	9 57
22	20 20 17.72	63.80	18 27 52.5	3 55.9	0.077387	9 56
23	20 19 13.92	−64.12	18 31 48.4	−3 56.3	0.076906	9 55
24	20 18 9.80	64.34	−18 35 44.7	3 56.4	0.076516	9 55
☍ 25	20 17 5.46	64.47	18 39 41.1	3 56.1	0.076216	9 54
26	20 16 0.99	64.51	18 43 37.2	3 55.6	0.076006	9 54
27	20 14 56.48	64.47	18 47 32.8	3 54.8	0.075888	9 54
28	20 13 52.01	−64.33	18 51 27.6	−3 53.6	0.075862	9 54
29	20 12 47.68	64.11	−18 55 21.2	3 52.0	0.075928	9 54
30	20 11 43.57	63.79	18 59 13.2	3 50.2	0.076084	9 54
31	20 10 39.78	63.38	19 3 3.4	3 48.2	0.076330	9 54
Aug. 1	20 9 36.40	62.86	19 6 51.6	3 46.0	0.076668	9 55
2	20 8 33.54	−62.25	19 10 37.6	−3 43.5	0.077096	9 55
3	20 7 31.29	61.55	−19 14 21.1	3 40.5	0.077613	9 56
4	20 6 29.74	60.76	19 18 1.6	3 37.3	0.078219	9 57
5	20 5 28.98	59.89	19 21 38.9	3 33.9	0.078913	9 58
6	20 4 29.09	58.92	19 25 12.8	3 30.3	0.079694	9 59
7	20 3 30.17	−57.86	19 28 43.1	−3 26.4	0.080561	10 0
8	20 2 32.31	56.72	−19 32 9.5	3 22.4	0.081512	10 1
9	20 1 35.59	55.51	19 35 31.9	3 18.1	0.082545	10 3
10	20 0 40.08	54.23	19 38 50.0	3 13.6	0.083658	10 4
11	19 59 45.85	52.87	19 42 3.6	3 9.0	0.084850	10 6
12	19 58 52.98	−51.44	19 45 12.6	−3 4.2	0.086120	10 8
13	19 58 1.54	49.94	−19 48 16.8	2 59.4	0.087466	10 10
14	19 57 11.60		19 51 16.2		0.088885	10 12

Opp. in AR. Juli 25   Gröfse = 12.1

P. Neugebauer.

(26) PROSERPINA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Juli 13	21 12 50.29	−42.50	−22 2 21.4	−4 22.3	0.202609	13 15
14	21 12 7.79	43.72	22 6 43.7	4 23.5	0.201532	13 13
15	21 11 24.07	44.90	22 11 7.2	4 24.5	0.200517	13 11
16	21 10 39.17	46.02	22 15 31.7	4 25.2	0.199565	13 9
17	21 9 53.15	−47.09	22 19 56.9	−4 25.6	0.198677	13 8
18	21 9 6.06	48.10	−22 24 22.5	4 25.6	0.197855	13 6
19	21 8 17.96	49.08	22 28 48.1	4 25.2	0.197098	13 5
20	21 7 28.88	49.99	22 33 13.3	4 24.6	0.196408	13 4
21	21 6 38.89	50.84	22 37 37.9	4 23.6	0.195785	13 2
22	21 5 48.05	−51.64	22 42 1.5	−4 22.1	0.195231	13 1
23	21 4 56.41	52.39	−22 46 23.6	4 20.3	0.194746	13 1
24	21 4 4.02	53.07	22 50 43.9	4 18.3	0.194331	13 0
25	21 3 10.95	53.68	22 55 2.2	4 15.8	0.193987	12 59
26	21 2 17.27	54.24	22 59 18.0	4 12.9	0.193715	12 59
27	21 1 23.03	−54.74	23 3 30.9	−4 9.8	0.193514	12 58
28	21 0 28.29	55.17	−23 7 40.7	4 6.4	0.193386	12 58
29	20 59 33.12	55.52	23 11 47.1	4 2.6	0.193331	12 58
30	20 58 37.60	55.81	23 15 49.7	3 58.6	0.193349	12 58
31	20 57 41.79	56.03	23 19 48.3	3 54.2	0.193440	12 58
Aug. 1	20 56 45.76	−56.17	23 23 42.5	−3 49.4	0.193605	12 59
2	20 55 49.59	56.22	−23 27 31.9	3 44.4	0.193844	12 59
☍ 3	20 54 53.37	56.20	23 31 16.3	3 39.1	0.194156	13 0
4	20 53 57.17	56.11	23 34 55.4	3 33.4	0.194543	13 0
5	20 53 1.06	55.95	23 38 28.8	3 27.5	0.195004	13 1
6	20 52 5.11	−55.73	23 41 56.3	−3 21.4	0.195539	13 2
7	20 51 9.38	55.43	−23 45 17.7	3 15.2	0.196146	13 3
8	20 50 13.95	55.05	23 48 32.9	3 8.6	0.196825	13 4
9	20 49 18.90	54.59	23 51 41.5	3 1.9	0.197576	13 6
10	20 48 24.31	54.08	23 54 43.4	2 54.9	0.198398	13 7
11	20 47 30.23	−53.50	23 57 38.3	−2 47.9	0.199290	13 9
12	20 46 36.73	52.85	−24 0 26.2	2 40.8	0.200250	13 11
13	20 45 43.88	52.13	24 3 7.0	2 33.4	0.201278	13 13
14	20 44 51.75	51.35	24 5 40.4	2 26.0	0.202374	13 14
15	20 44 0.40	50.51	24 8 6.4	2 18.5	0.203536	13 16
16	20 43 9.89	−49.61	24 10 24.9	−2 10.8	0.204762	13 19
17	20 42 20.28	48.65	−24 12 35.7	2 2.9	0.206052	13 21
18	20 41 31.63		24 14 38.6		0.207404	13 24

Opp. in AR. Aug. 3 Gröfse = 10.3

P. Neugebauer.

(247) EUKRATE 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Aug. 28	23h 54m 48s.22	−65s.93	−13° 3′ 4″.9	+3′ 4″.1	0.150544	11m 45s
29	23 53 42.29	67.46	13 0 0.8	3 8.7	0.148570	11 42
30	23 52 34.83	68.94	12 56 52.1	3 13.6	0.146665	11 39
31	23 51 25.89	70.34	12 53 38.5	3 18.7	0.144831	11 36
Sept. 1	23 50 15.55	−71.69	12 50 19.8	+3 24.1	0.143071	11 33
2	23 49 3.86	72.96	−12 46 55.7	3 30.0	0.141386	11 30
3	23 47 50.90	74.16	12 43 25.7	3 36.0	0.139778	11 28
4	23 46 36.74	75.28	12 39 49.7	3 42.4	0.138249	11 25
5	23 45 21.46	76.33	12 36 7.3	3 49.0	0.136800	11 23
6	23 44 5.13	−77.29	12 32 18.3	+3 56.0	0.135433	11 21
7	23 42 47.84	78.16	−12 28 22.3	4 3.2	0.134150	11 19
8	23 41 29.68	78.96	12 24 19.1	4 10.7	0.132952	11 17
9	23 40 10.72	79.66	12 20 8.4	4 18.3	0.131840	11 15
10	23 38 51.06	80.28	12 15 50.1	4 26.2	0.130814	11 14
11	23 37 30.78	−80.79	12 11 23.9	+4 34.2	0.129877	11 12
12	23 36 9.99	81.23	−12 6 49.7	4 42.5	0.129028	11 11
13	23 34 48.76	81.55	12 2 7.2	4 50.8	0.128269	11 10
14	23 33 27.21	81.81	11 57 16.4	4 59.3	0.127599	11 9
☍ 15	23 32 5.40	81.95	11 52 17.1	5 8.0	0.127021	11 8
16	23 30 43.45	−82.00	11 47 9.1	+5 16.6	0.126533	11 7
17	23 29 21.45	81.97	−11 41 52.5	5 25.4	0.126137	11 6
18	23 27 59.48	81.84	11 36 27.1	5 34.2	0.125831	11 6
19	23 26 37.64	81.61	11 30 52.9	5 43.1	0.125618	11 6
20	23 25 16.03	81.30	11 25 9.8	5 51.8	0.125495	11 5
21	23 23 54.73	−80.90	11 19 18.0	+6 0.8	0.125463	11 5
22	23 22 33.83	80.39	−11 13 17.2	6 9.5	0.125523	11 5
23	23 21 13.44	79.81	11 7 7.7	6 18.4	0.125673	11 6
24	23 19 53.63	79.12	11 0 49.3	6 27.1	0.125913	11 6
25	23 18 34.51	78.34	10 54 22.2	6 36.0	0.126243	11 7
26	23 17 16.17	−77.47	10 47 46.2	+6 44.6	0.126662	11 7
27	23 15 58.70	76.53	−10 41 1.6	6 53.3	0.127168	11 8
28	23 14 42.17	75.48	10 34 8.3	7 1.9	0.127762	11 9
29	23 13 26.69	74.36	10 27 6.4	7 10.4	0.128441	11 10
30	23 12 12.33	73.14	10 19 56.0	7 18.8	0.129206	11 11
Okt. 1	23 10 59.19	−71.86	10 12 37.2	+7 27.2	0.130053	11 12
2	23 9 47.33	70.47	−10 5 10.0	7 35.4	0.130983	11 14
3	23 8 36.86		9 57 34.6		0.131993	11 15

Opp. in AR. Sept. 15 Gröfse = 10.1

W. Luther.

(288) GLAUKE 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Aug. 28	0 3 31.48	−38.17	−4 46 47.0	−5 32.5	0.356746	18 53
29	0 2 53.31	39.01	4 52 19.5	5 35.9	0.355899	18 51
30	0 2 14.30	39.81	4 57 55.4	5 39.1	0.355099	18 49
31	0 1 34.49	40.57	5 3 34.5	5 41.9	0.354349	18 47
Sept. 1	0 0 53.92	−41.31	5 9 16.4	−5 44.3	0.353649	18 45
2	0 0 12.61	41.99	−5 15 0.7	5 46.6	0.353001	18 44
3	23 59 30.62	42.64	5 20 47.3	5 48.5	0.352405	18 42
4	23 58 47.98	43.26	5 26 35.8	5 50.0	0.351862	18 41
5	23 58 4.72	43.83	5 32 25.8	5 51.3	0.351372	18 39
6	23 57 20.89	−44.36	5 38 17.1	−5 52.2	0.350936	18 38
7	23 56 36.53	44.84	−5 44 9.3	5 52.8	0.350555	18 37
8	23 55 51.69	45.29	5 50 2.1	5 53.0	0.350229	18 36
9	23 55 6.40	45.70	5 55 55.1	5 52.9	0.349959	18 36
10	23 54 20.70	46.05	6 1 48.0	5 52.4	0.349745	18 35
11	23 53 34.65	−46.36	6 7 40.4	−5 51.8	0.349587	18 35
12	23 52 48.29	46.63	−6 13 32.2	5 50.6	0.349486	18 35
13	23 52 1.66	46.86	6 19 22.8	5 49.3	0.349442	18 34
14	23 51 14.80	47.03	6 25 12.1	5 47.5	0.349454	18 34
15	23 50 27.77	47.18	6 30 59.6	5 45.5	0.349524	18 35
16	23 49 40.59	−47.26	6 36 45.1	−5 43.2	0.349651	18 35
17	23 48 53.33	47.32	−6 42 28.3	5 40.5	0.349835	18 35
18	23 48 6.01	47.32	6 48 8.8	5 37.6	0.350076	18 36
☍ 19	23 47 18.69	47.28	6 53 46.4	5 34.4	0.350374	18 37
20	23 46 31.41	47.20	6 59 20.8	5 30.9	0.350728	18 38
21	23 45 44.21	−47.07	7 4 51.7	−5 27.1	0.351140	18 39
22	23 44 57.14	46.90	−7 10 18.8	5 23.0	0.351608	18 40
23	23 44 10.24	46.69	7 15 41.8	5 18.6	0.352132	18 41
24	23 43 23.55	46.43	7 21 0.4	5 14.0	0.352712	18 43
25	23 42 37.12	46.13	7 26 14.4	5 9.1	0.353347	18 44
26	23 41 50.99	−45.79	7 31 23.5	−5 4.0	0.354038	18 46
27	23 41 5.20	45.39	−7 36 27.5	4 58.5	0.354784	18 48
28	23 40 19.81	44.96	7 41 26.0	4 52.8	0.355584	18 50
29	23 39 34.85	44.47	7 46 18.8	4 46.8	0.356438	18 53
30	23 38 50.38	43.96	7 51 5.6	4 40.7	0.357344	18 55
Okt. 1	23 38 6.42	−43.39	7 55 46.3	−4 34.2	0.358304	18 57
2	23 37 23.03	42.77	−8 0 20.5	4 27.6	0.359315	19 0
3	23 36 40.26		8 4 48.1		0.360376	19 3

Opp. in AR. Sept. 19 Gröfse = 13.4

W. Luther.

(134) SOPHROSYNE 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Sept. 15	0 46 45.46	−52.01	+12 10 46.1	+1 39.8	0.159874	12 0
16	0 45 53.45	53.19	12 12 25.9	1 30.5	0.158218	11 58
17	0 45 0.26	54.32	12 13 56.4	1 21.0	0.156628	11 55
18	0 44 5.94	55.40	12 15 17.4	1 11.6	0.155105	11 52
19	0 43 10.54	−56.43	12 16 29.0	+1 2.3	0.153651	11 50
20	0 42 14.11	57.41	+12 17 31.3	0 53.0	0.152267	11 48
21	0 41 16.70	58.33	12 18 24.3	0 43.8	0.150955	11 46
22	0 40 18.37	59.18	12 19 8.1	0 34.6	0.149716	11 44
23	0 39 19.19	59.96	12 19 42.7	0 25.5	0.148551	11 42
24	0 38 19.23	−60.67	12 20 8.2	+0 16.5	0.147462	11 40
25	0 37 18.56	61.33	+12 20 24.7	+0 7.5	0.146450	11 38
26	0 36 17.23	61.92	12 20 32.2	−0 1.1	0.145517	11 37
27	0 35 15.31	62.42	12 20 31.1	0 9.6	0.144664	11 36
28	0 34 12.89	62.83	12 20 21.5	0 18.0	0.143892	11 34
29	0 33 10.06	−63.14	12 20 3.5	−0 26.1	0.143201	11 33
30	0 32 6.92	63.38	+12 19 37.4	0 33.9	0.142593	11 32
☍ Okt. 1	0 31 3.54	63.56	12 19 3.5	0 41.4	0.142068	11 31
2	0 29 59.98	63.66	12 18 22.1	0 48.7	0.141627	11 31
3	0 28 56.32	63.66	12 17 33.4	0 55.7	0.141270	11 30
4	0 27 52.66	−63.56	12 16 37.7	−1 2.3	0.140998	11 30
5	0 26 49.10	63.37	+12 15 35.4	1 8.7	0.140810	11 29
6	0 25 45.73	63.10	12 14 26.7	1 14.6	0.140706	11 29
7	0 24 42.63	62.75	12 13 12.1	1 20.3	0.140688	11 29
8	0 23 39.88	62.31	12 11 51.8	1 25.6	0.140755	11 29
9	0 22 37.57	−61.81	12 10 26.2	−1 30.4	0.140907	11 29
10	0 21 35.76	61.25	+12 8 55.8	1 34.9	0.141142	11 29
11	0 20 34.51	60.60	12 7 20.9	1 39.0	0.141459	11 30
12	0 19 33.91	59.86	12 5 41.9	1 42.6	0.141859	11 31
13	0 18 34.05	59.06	12 3 59.3	1 45.9	0.142341	11 32
14	0 17 34.99	−58.18	12 2 13.4	−1 48.8	0.142903	11 33
15	0 16 36.81	57.22	+12 0 24.6	1 51.4	0.143544	11 34
16	0 15 39.59	56.20	11 58 33.2	1 53.4	0.144264	11 35
17	0 14 43.39	55.12	11 56 39.8	1 55.1	0.145062	11 36
18	0 13 48.27	53.97	11 54 44.7	1 56.5	0.145937	11 38
19	0 12 54.30	−52.75	11 52 48.2	−1 57.5	0.146888	11 39
20	0 12 1.55	51.47	+11 50 50.7	1 58.0	0.147913	11 41
21	0 11 10.08		11 48 52.7		0.149010	11 43

Opp. in AR. Okt. 1 Größe = 10.7

P. Neugebauer.

(42) ISIS 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Sept. 27	1 52 55.61	−52.06	−4 27 34.4	−5 14.3	0.045938	9 14
28	1 52 3.55	53.50	4 32 48.7	5 9.6	0.045320	9 13
29	1 51 10.05	54.86	4 37 58.3	5 4.2	0.044790	9 13
30	1 50 15.19	56.16	4 43 2.5	4 58.2	0.044350	9 12
Okt. 1	1 49 19.03	−57.36	4 48 0.7	−4 51.6	0.044000	9 12
2	1 48 21.67	58.46	−4 52 52.3	4 44.4	0.043742	9 11
3	1 47 23.21	59.47	4 57 36.7	4 36.4	0.043577	9 11
4	1 46 23.74	60.40	5 2 13.1	4 27.8	0.043506	9 11
5	1 45 23.34	61.23	5 6 40.9	4 18.8	0.043530	9 11
6	1 44 22.11	−61.96	5 10 59.7	−4 9.3	0.043650	9 11
7	1 43 20.15	62.60	−5 15 9.0	3 59.1	0.043866	9 11
8	1 42 17.55	63.14	5 19 8.1	3 48.4	0.044179	9 12
9	1 41 14.41	63.59	5 22 56.5	3 37.3	0.044590	9 12
10	1 40 10.82	63.95	5 26 33.8	3 25.7	0.045097	9 13
11	1 39 6.87	−64.20	5 29 59.5	−3 13.6	0.045700	9 14
12	1 38 2.67	64.36	−5 33 13.1	3 1.2	0.046398	9 15
13	1 36 58.31	64.42	5 36 14.3	2 48.4	0.047193	9 16
14	1 35 53.89	64.38	5 39 2.7	2 35.3	0.048084	9 17
15	1 34 49.51	64.23	5 41 38.0	2 21.9	0.049070	9 18
16	1 33 45.28	−64.00	5 43 59.9	−2 8.2	0.050151	9 20
17	1 32 41.28	63.70	−5 46 8.1	1 54.2	0.051325	9 21
☍ 18	1 31 37.58	63.32	5 48 2.3	1 39.8	0.052592	9 23
19	1 30 34.26	62.83	5 49 42.1	1 25.2	0.053950	9 24
20	1 29 31.43	62.23	5 51 7.3	1 10.6	0.055398	9 26
21	1 28 29.20	−61.56	5 52 17.9	−0 55.8	0.056936	9 28
22	1 27 27.64	60.82	−5 53 13.7	0 40.9	0.058561	9 30
23	1 26 26.82	60.00	5 53 54.6	0 25.7	0.060273	9 33
24	1 25 26.82	59.10	5 54 20.3	−0 10.5	0.062072	9 35
25	1 24 27.72	58.10	5 54 30.8	+0 4.8	0.063955	9 38
26	1 23 29.62	−57.02	5 54 26.0	+0 20.2	0.065920	9 40
27	1 22 32.60	55.88	−5 54 5.8	0 35.7	0.067966	9 43
28	1 21 36.72	54.68	5 53 30.1	0 51.1	0.070091	9 46
29	1 20 42.04	53.39	5 52 39.0	1 6.6	0.072294	9 49
30	1 19 48.65	52.03	5 51 32.4	1 22.1	0.074570	9 52
31	1 18 56.62	−50.61	5 50 10.3	+1 37.5	0.076919	9 55
Nov. 1	1 18 6.01	49.12	−5 48 32.8	1 53.0	0.079339	9 58
2	1 17 16.89		5 46 39.8		0.081828	10 2

Opp. in AR. Okt. 18 Gröfse = 9.6

P. Neugebauer.

(270) ANAHITA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 2	3 57 13.65	−58.69	+22 11 37.1	−3 57.2	0.054410	9 25
3	3 56 14.96	60.07	22 7 39.9	4 4.6	0.053521	9 24
4	3 55 14.89	61.35	22 3 35.3	4 11.6	0.052719	9 23
5	3 54 13.54	62.54	21 59 23.7	4 18.4	0.052009	9 22
6	3 53 11.00	−63.62	21 55 5.3	−4 25.0	0.051391	9 21
7	3 52 7.38	64.61	+21 50 40.3	4 31.2	0.050867	9 21
8	3 51 2.77	65.49	21 46 9.1	4 37.0	0.050437	9 20
9	3 49 57.28	66.27	21 41 32.1	4 42.7	0.050104	9 20
10	3 48 51.01	66.94	21 36 49.4	4 48.1	0.049868	9 19
11	3 47 44.07	−67.50	21 32 1.3	−4 53.1	0.049730	9 19
12	3 46 36.57	67.96	+21 27 8.2	4 57.7	0.049691	9 19
13	3 45 28.61	68.31	21 22 10.5	5 2.0	0.049751	9 19
14	3 44 20.30	68.57	21 17 8.5	5 5.9	0.049909	9 19
15	3 43 11.73	68.71	21 12 2.6	5 9.4	0.050167	9 20
16	3 42 3.02	−68.74	21 6 53.2	−5 12.6	0.050526	9 20
17	3 40 54.28	68.67	+21 1 40.6	5 15.3	0.050985	9 21
18	3 39 45.61	68.50	20 56 25.3	5 17.6	0.051544	9 21
☍ 19	3 38 37.11	68.22	20 51 7.7	5 19.6	0.052203	9 22
20	3 37 28.89	67.83	20 45 48.1	5 21.1	0.052962	9 23
21	3 36 21.06	−67.36	20 40 27.0	−5 22.1	0.053820	9 24
22	3 35 13.70	66.78	+20 35 4.9	5 22.7	0.054777	9 26
23	3 34 6.92	66.08	20 29 42.2	5 22.8	0.055834	9 27
24	3 33 0.84	65.28	20 24 19.4	5 22.4	0.056990	9 28
25	3 31 55.56	64.39	20 18 57.0	5 21.6	0.058242	9 30
26	3 30 51.17	−63.40	20 13 35.4	−5 20.3	0.059589	9 32
27	3 29 47.77	62.32	+20 8 15.1	5 18.4	0.061030	9 34
28	3 28 45.45	61.15	20 2 56.7	5 16.0	0.062564	9 36
29	3 27 44.30	59.89	19 57 40.7	5 13.2	0.064190	9 38
30	3 26 44.41	58.54	19 52 27.5	5 10.0	0.065905	9 40
Dez. 1	3 25 45.87	−57.12	19 47 17.5	−5 6.2	0.067707	9 43
2	3 24 48.75	55.63	+19 42 11.3	5 2.0	0.069596	9 45
3	3 23 53.12	54.06	19 37 9.3	4 57.4	0.071569	9 48
4	3 22 59.06	52.41	19 32 11.9	4 52.4	0.073624	9 51
5	3 22 6.65	50.70	19 27 19.5	4 47.0	0.075758	9 54
6	3 21 15.95	−48.93	19 22 32.5	−4 41.1	0.077968	9 57
7	3 20 27.02	47.10	+19 17 51.4	4 34.8	0.080254	10 0
8	3 19 39.92		19 13 16.6		0.082612	10 3

Opp. in AR. Nov. 19 Gröfse = 10.8

P. Neugebauer.

(95) ARETHUSA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 2	4 2 24.79	−41.80	+24 9 40.3	−6 34.6	0.225076	13 57
3	4 1 42.99	42.89	24 3 5.7	6 41.9	0.223936	13 55
4	4 1 0.10	43.92	23 56 23.8	6 49.0	0.222859	13 53
5	4 0 16.18	44.88	23 49 34.8	6 55.8	0.221847	13 51
6	3 59 31.30	−45.78	23 42 39.0	−7 2.4	0.220901	13 49
7	3 58 45.52	46.59	+23 35 36.6	7 8.6	0.220023	13 47
8	3 57 58.93	47.34	23 28 28.0	7 14.8	0.219213	13 46
9	3 57 11.59	48.02	23 21 13.2	7 20.8	0.218473	13 44
10	3 56 23.57	48.65	23 13 52.4	7 26.4	0.217804	13 43
11	3 55 34.92	−49.21	23 6 26.0	−7 31.6	0.217206	13 42
12	3 54 45.71	49.71	+22 58 54.4	7 36.6	0.216680	13 41
13	3 53 56.00	50.14	22 51 17.8	7 41.4	0.216227	13 40
14	3 53 5.86	50.50	22 43 36.4	7 45.8	0.215848	13 39
15	3 52 15.36	50.79	22 35 50.6	7 49.8	0.215542	13 39
16	3 51 24.57	−51.02	22 28 0.8	−7 53.5	0.215310	13 38
17	3 50 33.55	51.18	+22 20 7.3	7 56.8	0.215154	13 38
18	3 49 42.37	51.27	22 12 10.5	7 59.7	0.215072	13 38
19	3 48 51.10	51.29	22 4 10.8	8 2.3	0.215066	13 38
20	3 47 59.81	51.25	21 56 8.5	8 4.5	0.215137	13 38
☍ 21	3 47 8.56	−51.13	21 48 4.0	−8 6.3	0.215284	13 38
22	3 46 17.43	50.94	+21 39 57.7	8 7.8	0.215507	13 39
23	3 45 26.49	50.69	21 31 49.9	8 8.7	0.215807	13 40
24	3 44 35.80	50.36	21 23 41.2	8 9.3	0.216182	13 40
25	3 43 45.44	49.97	21 15 31.9	8 9.4	0.216634	13 41
26	3 42 55.47	−49.51	21 7 22.5	−8 9.1	0.217161	13 42
27	3 42 5.96	48.97	+20 59 13.4	8 8.4	0.217763	13 43
28	3 41 16.99	48.35	20 51 5.0	8 7.3	0.218440	13 44
29	3 40 28.64	47.68	20 42 57.7	8 5.7	0.219192	13 46
30	3 39 40.96	46.96	20 34 52.0	8 3.7	0.220016	13 47
Dez. 1	3 38 54.00	−46.17	20 26 48.3	−8 1.3	0.220912	13 49
2	3 38 7.83	45.31	+20 18 47.0	7 58.4	0.221880	13 51
3	3 37 22.52	44.40	20 10 48.6	7 55.2	0.222920	13 53
4	3 36 38.12	43.45	20 2 53.4	7 51.4	0.224030	13 55
5	3 35 54.67	42.45	19 55 2.0	7 47.3	0.225208	13 57
6	3 35 12.22	−41.40	19 47 14.7	−7 42.8	0.226452	14 0
7	3 34 30.82	40.30	+19 39 31.9	7 37.8	0.227763	14 2
8	3 33 50.52		19 31 54.1		0.229138	14 5

Opp. in AR. Nov. 21 Gröſse = 10.5

P. Neugebauer.

(190) ISMENE 1910.

12ʰ Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 6	4 13 40.31	−35.55	+13 39 12.1	−3 11.8	0.395515	20 39
7	4 13 4.76	36.25	13 36 0.3	3 11.5	0.394526	20 37
8	4 12 28.51	36.92	13 32 48.8	3 10.9	0.393584	20 34
9	4 11 51.59	37.57	13 29 37.9	3 10.2	0.392689	20 32
10	4 11 14.02	−38.17	13 26 27.7	−3 9.4	0.391842	20 29
11	4 10 35.85	38.74	+13 23 18.3	3 8.5	0.391043	20 27
12	4 9 57.11	39.28	13 20 9.8	3 7.4	0.390293	20 25
13	4 9 17.83	39.77	13 17 2.4	3 6.2	0.389593	20 23
14	4 8 38.06	40.23	13 13 56.2	3 4.7	0.388942	20 21
15	4 7 57.83	−40.65	13 10 51.5	−3 3.2	0.388342	20 19
16	4 7 17.18	41.03	+13 7 48.3	3 1.6	0.387792	20 17
17	4 6 36.15	41.37	13 4 46.7	2 59.8	0.387294	20 16
18	4 5 54.78	41.67	13 1 46.9	2 57.8	0.386847	20 15
19	4 5 13.11	41.92	12 58 49.1	2 55.7	0.386453	20 14
20	4 4 31.19	−42.14	12 55 53.4	−2 53.4	0.386110	20 13
21	4 3 49.05	42.30	+12 53 0.0	2 51.1	0.385820	20 12
22	4 3 6.75	42.42	12 50 8.9	2 48.6	0.385584	20 11
23	4 2 24.33	42.49	12 47 20.3	2 45.8	0.385401	20 11
24	4 1 41.84	42.52	12 44 34.5	2 42.8	0.385271	20 10
☍ 25	4 0 59.32	−42.51	12 41 51.7	−2 39.8	0.385195	20 10
26	4 0 16.81	42.46	+12 39 11.9	2 36.6	0.385172	20 10
27	3 59 34.35	42.36	12 36 35.3	2 33.3	0.385203	20 10
28	3 58 51.99	42.20	12 34 2.0	2 29.8	0.385287	20 10
29	3 58 9.79	42.00	12 31 32.2	2 26.1	0.385425	20 11
30	3 57 27.79	−41.76	12 29 6.1	−2 22.3	0.385616	20 11
Dez. 1	3 56 46.03	41.47	+12 26 43.8	2 18.4	0.385860	20 12
2	3 56 4.56	41.15	12 24 25.4	2 14.3	0.386157	20 13
3	3 55 23.41	40.77	12 22 11.1	2 10.0	0.386507	20 14
4	3 54 42.64	40.34	12 20 1.1	2 5.7	0.386908	20 15
5	3 54 2.30	−39.88	12 17 55.4	−2 1.3	0.387360	20 16
6	3 53 22.42	39.37	+12 15 54.1	1 56.7	0.387864	20 18
7	3 52 43.05	38.82	12 13 57.4	1 51.9	0.388418	20 19
8	3 52 4.23	38.23	12 12 5.5	1 47.1	0.389022	20 21
9	3 51 26.00	37.61	12 10 18.4	1 42.2	0.389674	20 23
10	3 50 48.39	−36.95	12 8 36.2	−1 37.2	0.390374	20 25
11	3 50 11.44	36.24	+12 6 59.0	1 32.1	0.391122	20 27
12	3 49 35.20		12 5 26.9		0.391917	20 29

Opp. in AR. Nov. 25   Größe = 11.3

P. Neugebauer.

(184) DEJOPEJA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 10	4 32 19.36	−43.75	+23 34 5.2	−1 17.3	0.373656	19 38
11	4 31 35.61	44.59	23 32 47.9	1 20.4	0.372619	19 36
12	4 30 51.02	45.39	23 31 27.5	1 23.6	0.371631	19 33
13	4 30 5.63	46.15	23 30 3.9	1 26.8	0.370693	19 31
14	4 29 19.48	−46.86	23 28 37.1	−1 29.8	0.369804	19 28
15	4 28 32.62	47.54	+23 27 7.3	1 32.9	0.368966	19 26
16	4 27 45.08	48.16	23 25 34.4	1 35.9	0.368180	19 24
17	4 26 56.92	48.73	23 23 58.5	1 38.9	0.367446	19 22
18	4 26 8.19	49.27	23 22 19.6	1 41.8	0.366764	19 20
19	4 25 18.92	−49.77	23 20 37.8	−1 44.7	0.366136	19 18
20	4 24 29.15	50.21	+23 18 53.1	1 47.5	0.365562	19 17
21	4 23 38.94	50.61	23 17 5.6	1 50.2	0.365044	19 15
22	4 22 48.33	50.95	23 15 15.4	1 52.8	0.364580	19 14
23	4 21 57.38	51.24	23 13 22.6	1 55.3	0.364172	19 13
24	4 21 6.14	−51.48	23 11 27.3	−1 57.8	0.363820	19 12
25	4 20 14.66	51.66	+23 9 29.5	2 0.1	0.363525	19 11
26	4 19 23.00	51.79	23 7 29.4	2 2.3	0.363287	19 11
27	4 18 31.21	51.85	23 5 27.1	2 4.3	0.363107	19 10
☍ 28	4 17 39.36	51.86	23 3 22.8	2 6.3	0.362984	19 10
29	4 16 47.50	−51.81	23 1 16.5	−2 8.1	0.362919	19 10
30	4 15 55.69	51.71	+22 59 8.4	2 9.7	0.362912	19 10
Dez. 1	4 15 3.98	51.56	22 56 58.7	2 11.3	0.362963	19 10
2	4 14 12.42	51.35	22 54 47.4	2 12.7	0.363071	19 10
3	4 13 21.07	51.09	22 52 34.7	2 13.9	0.363237	19 10
4	4 12 29.98	−50.78	22 50 20.8	−2 14.9	0.363460	19 11
5	4 11 39.20	50.40	+22 48 5.9	2 15.7	0.363740	19 12
6	4 10 48.80	49.97	22 45 50.2	2 16.5	0.364077	19 13
7	4 9 58.83	49.50	22 43 33.7	2 16.9	0.364471	19 14
8	4 9 9.33	48.98	22 41 16.8	2 17.2	0.364920	19 15
9	4 8 20.35	−48.40	22 38 59.6	−2 17.4	0.365424	19 16
10	4 7 31.95	47.77	+22 36 42.2	2 17.5	0.365983	19 18
11	4 6 44.18	47.10	22 34 24.7	2 17.3	0.366596	19 20
12	4 5 57.08	46.39	22 32 7.4	2 17.0	0.367262	19 21
13	4 5 10.69	45.64	22 29 50.4	2 16.6	0.367981	19 23
14	4 4 25.05	−44.84	22 27 33.8	−2 16.0	0.368752	19 26
15	4 3 40.21	43.99	+22 25 17.8	2 15.4	0.369574	19 28
16	4 2 56.22		22 23 2.4		0.370447	19 30

Opp. in AR. Nov. 28 Gröſse = 12.6

P. Neugebauer.

(82) ALKMENE 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Nov. 18	$4^h 58^m 30^s.16$	$-49^s.55$	$+25° 49' 49''.4$	$+0' 28''.3$	0.163723	$12^m 7^s$
19	4 57 40.61	50.94	25 50 17.7	0 23.9	0.161876	12 4
20	4 56 49.67	52.27	25 50 41.6	0 19.5	0.160097	12 1
21	4 55 57.40	53.54	25 51 1.1	0 15.0	0.158386	11 58
22	4 55 3.86	−54.75	25 51 16.1	+0 10.4	0.156746	11 55
23	4 54 9.11	55.88	+25 51 26.5	0 5.7	0.155178	11 52
24	4 53 13.23	56.94	25 51 32.2	+0 1.0	0.153683	11 50
25	4 52 16.29	57.93	25 51 33.2	−0 3.7	0.152264	11 48
26	4 51 18.36	58.84	25 51 29.5	0 8.5	0.150922	11 46
27	4 50 19.52	−59.66	25 51 21.0	−0 13.3	0.149658	11 44
28	4 49 19.86	60.40	+25 51 7.7	0 18.0	0.148474	11 42
29	4 48 19.46	61.05	25 50 49.7	0 22.8	0.147371	11 40
30	4 47 18.41	61.61	25 50 26.9	0 27.5	0.146349	11 38
Dez. 1	4 46 16.80	62.08	25 49 59.4	0 32.1	0.145411	11 37
2	4 45 14.72	−62.44	25 49 27.3	−0 36.8	0.144556	11 35
3	4 44 12.28	62.73	+25 48 50.5	0 41.2	0.143785	11 34
☍ 4	4 43 9.55	62.91	25 48 9.3	0 45.7	0.143099	11 33
5	4 42 6.64	62.99	25 47 23.6	0 49.9	0.142499	11 32
6	4 41 3.65	62.98	25 46 33.7	0 54.1	0.141985	11 31
7	4 40 0.67	−62.87	25 45 39.6	−0 58.2	0.141556	11 31
8	4 38 57.80	62.67	+25 44 41.4	1 1.9	0.141213	11 30
9	4 37 55.13	62.37	25 43 39.5	1 5.7	0.140957	11 30
10	4 36 52.76	61.99	25 42 33.8	1 9.3	0.140786	11 29
11	4 35 50.77	61.50	25 41 24.5	1 12.5	0.140700	11 29
12	4 34 49.27	−60.93	25 40 12.0	−1 15.8	0.140700	11 29
13	4 33 48.34	60.27	+25 38 56.2	1 18.7	0.140783	11 29
14	4 32 48.07	59.54	25 37 37.5	1 21.5	0.140951	11 30
15	4 31 48.53	58.72	25 36 16.0	1 24.1	0.141202	11 30
16	4 30 49.81	57.81	25 34 51.9	1 26.3	0.141535	11 30
17	4 29 52.00	−56.84	25 33 25.6	−1 28.5	0.141950	11 31
18	4 28 55.16	55.78	+25 31 57.1	1 30.3	0.142445	11 32
19	4 27 59.38	54.65	25 30 26.8	1 32.0	0.143020	11 33
20	4 27 4.73	53.43	25 28 54.8	1 33.3	0.143674	11 34
21	4 26 11.30	52.15	25 27 21.5	1 34.4	0.144405	11 35
22	4 25 19.15	−50.80	25 25 47.1	−1 35.2	0.145213	11 36
23	4 24 28.35	49.36	+25 24 11.9	1 35.8	0.146096	11 38
24	4 23 38.99		25 22 36.1		0.147054	11 39

Opp. in AR. Dez. 4 Größe = 10.4

W. Luther.

(57) MNEMOSYNE 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 18	4 57 2.06	−42.12	+5 28 0.5	−6 33.9	0.280568	15 51
19	4 56 19.94	42.91	5 21 26.6	6 27.7	0.279804	15 50
20	4 55 37.03	43.67	5 14 58.9	6 21.1	0.279098	15 48
21	4 54 53.36	44.37	5 8 37.8	6 14.3	0.278452	15 46
22	4 54 8.99	−45.03	5 2 23.5	−6 7.2	0.277867	15 45
23	4 53 23.96	45.63	+4 56 16.3	5 59.7	0.277343	15 44
24	4 52 38.33	46.18	4 50 16.6	5 52.0	0.276880	15 43
25	4 51 52.15	46.68	4 44 24.6	5 44.0	0.276480	15 42
26	4 51 5.47	47.12	4 38 40.6	5 35.7	0.276142	15 41
27	4 50 18.35	−47.51	4 33 4.9	−5 27.2	0.275868	15 41
28	4 49 30.84	47.83	+4 27 37.7	5 18.4	0.275658	15 40
29	4 48 43.01	48.09	4 22 19.3	5 9.3	0.275511	15 40
30	4 47 54.92	48.30	4 17 10.0	5 0.0	0.275428	15 40
Dez. 1	4 47 6.62	48.44	4 12 10.0	4 50.5	0.275410	15 40
2	4 46 18.18	−48.53	4 7 19.5	−4 40.7	0.275457	15 40
3	4 45 29.65	48.55	+4 2 38.8	4 30.8	0.275569	15 40
☍ 4	4 44 41.10	48.52	3 58 8.0	4 20.6	0.275745	15 41
5	4 43 52.58	48.42	3 53 47.4	4 10.3	0.275985	15 41
6	4 43 4.16	48.27	3 49 37.1	3 59.9	0.276289	15 42
7	4 42 15.89	−48.06	3 45 37.2	−3 49.3	0.276657	15 43
8	4 41 27.83	47.78	+3 41 47.9	3 38.5	0.277088	15 44
9	4 40 40.05	47.45	3 38 9.4	3 27.7	0.277581	15 45
10	4 39 52.60	47.05	3 34 41.7	3 16.9	0.278136	15 46
11	4 39 5.55	46.61	3 31 24.8	3 5.8	0.278754	15 47
12	4 38 18.94	−46.13	3 28 19.0	−2 54.7	0.279433	15 48
13	4 37 32.81	45.59	+3 25 24.3	2 43.5	0.280171	15 50
14	4 36 47.22	45.00	3 22 40.8	2 32.4	0.280969	15 52
15	4 36 2.22	44.38	3 20 8.4	2 21.2	0.281825	15 54
16	4 35 17.84	43.70	3 17 47.2	2 9.9	0.282738	15 56
17	4 34 34.14	−42.97	3 15 37.3	−1 58.7	0.283707	15 58
18	4 33 51.17	42.20	+3 13 38.6	1 47.5	0.284732	16 0
19	4 33 8.97	41.38	3 11 51.1	1 36.2	0.285812	16 3
20	4 32 27.59	40.52	3 10 14.9	1 25.0	0.286945	16 5
21	4 31 47.07	39.61	3 8 49.9	1 13.8	0.288131	16 8
22	4 31 7.46	−38.66	3 7 36.1	−1 2.6	0.289369	16 11
23	4 30 28.80	37.66	+3 6 33.5	0 51.4	0.290658	16 14
24	4 29 51.14		3 5 42.1		0.291997	16 17

Opp. in AR. Dez. 4 Gröſse = 10.1

P. Neugebauer.

(35) LEUKOTHEA 1910.

12h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
	h m s	s	° ′ ″	′ ″		m s
Nov. 22	4 57 40.77	−55.38	+33 42 54.7	+0 21.4	0.382828	20 4
23	4 56 45.39	56.17	33 43 15.8	0 14.5	0.381822	20 1
24	4 55 49.22	56.90	33 43 30.3	0 7.6	0.380866	19 58
25	4 54 52.32	57.57	33 43 37.9	+0 0.6	0.379960	19 56
26	4 53 54.75	−58.18	33 43 38.5	−0 6.5	0.379105	19 53
27	4 52 56.57	58.72	+33 43 32.0	0 13.8	0.378302	19 51
28	4 51 57.85	59.23	33 43 18.2	0 21.0	0.377552	19 49
29	4 50 58.62	59.66	33 42 57.2	0 28.2	0.376855	19 47
30	4 49 58.96	60.03	33 42 29.0	0 35.5	0.376212	19 45
Dez. 1	4 48 58.93	−60.34	33 41 53.5	−0 42.7	0.375623	19 44
2	4 47 58.59	60.59	+33 41 10.8	0 49.8	0.375088	19 42
3	4 46 58.00	60.77	33 40 21.0	0 57.0	0.374609	19 41
4	4 45 57.23	60.89	33 39 24.0	1 4.0	0.374186	19 40
☍ 5	4 44 56.34	60.95	33 38 20.0	1 10.9	0.373818	19 39
6	4 43 55.39	−60.94	33 37 9.1	−1 17.8	0.373507	19 38
7	4 42 54.45	60.86	+33 35 51.3	1 24.8	0.373251	19 38
8	4 41 53.59	60.71	33 34 26.5	1 31.6	0.373052	19 37
9	4 40 52.88	60.50	33 32 54.9	1 38.3	0.372909	19 37
10	4 39 52.38	60.23	33 31 16.6	1 44.8	0.372821	19 36
11	4 38 52.15	−59.90	33 29 31.8	−1 51.3	0.372788	19 36
12	4 37 52.25	59.51	+33 27 40.5	1 57.5	0.372812	19 36
13	4 36 52.74	59.07	33 25 43.0	2 3.6	0.372891	19 36
14	4 35 53.67	58.56	33 23 39.4	2 9.5	0.373026	19 37
15	4 34 55.11	58.00	33 21 29.9	2 15.2	0.373215	19 37
16	4 33 57.11	−57.39	33 19 14.7	−2 20.7	0.373458	19 38
17	4 32 59.72	56.73	+33 16 54.0	2 26.0	0.373754	19 39
18	4 32 2.99	56.00	33 14 28.0	2 31.1	0.374104	19 40
19	4 31 6.99	55.22	33 11 56.9	2 36.0	0.374508	19 41
20	4 30 11.77	54.40	33 9 20.9	2 40.7	0.374964	19 42
21	4 29 17.37	−53.53	33 6 40.2	−2 45.2	0.375472	19 44
22	4 28 23.84	52.60	+33 3 55.0	2 49.3	0.376032	19 45
23	4 27 31.24	51.62	33 1 5.7	2 53.2	0.376643	19 47
24	4 26 39.62	50.59	32 58 12.5	2 57.0	0.377304	19 48
25	4 25 49.03	49.51	32 55 15.5	3 0.6	0.378014	19 50
26	4 24 59.52	−48.38	32 52 14.9	−3 4.1	0.378773	19 52
27	4 24 11.14	47.21	+32 49 10.8	3 7.5	0.379579	19 55
28	4 23 23.93		32 46 3.3		0.380432	19 57

Opp. in AR. Dez. 5 Gröfse = 12.8

P. Neugebauer.

(46) HESTIA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Nov. 28	$6^h\ 8^m\ 15^s.93$	$-50^s.81$	$+19°\ 47'\ 34''.0$	$-41''.8$	0.179126	$12^m\ 33^s$
29	6 7 25.12	52.21	19 46 52.2	40.5	0.178086	12 31
30	6 6 32.91	53.54	19 46 11.7	39.1	0.177115	12 30
Dez. 1	6 5 39.37	54.80	19 45 32.6	37.7	0.176214	12 28
2	6 4 44.57	−56.00	19 44 54.9	−36.4	0.175385	12 27
3	6 3 48.57	57.14	+19 44 18.5	35.2	0.174630	12 25
4	6 2 51.43	58.19	19 43 43.3	33.9	0.173951	12 24
5	6 1 53.24	59.17	19 43 9.4	32.7	0.173347	12 23
6	6 0 54.07	60.06	19 42 36.7	31.5	0.172820	12 22
7	5 59 54.01	−60.88	19 42 5.2	−30.2	0.172370	12 21
8	5 58 53.13	61.62	+19 41 35.0	29.0	0.171999	12 21
9	5 57 51.51	62.28	19 41 6.0	27.9	0.171708	12 20
10	5 56 49.23	62.85	19 40 38.1	26.8	0.171497	12 20
11	5 55 46.38	63.33	19 40 11.3	25.7	0.171366	12 20
12	5 54 43.05	−63.74	19 39 45.6	−24.5	0.171317	12 20
13	5 53 39.31	64.08	+19 39 21.1	23.4	0.171351	12 20
14	5 52 35.23	64.33	19 38 57.7	22.2	0.171467	12 20
15	5 51 30.90	64.48	19 38 35.5	21.1	0.171665	12 20
16	5 50 26.42	64.55	19 38 14.4	19.9	0.171946	12 21
17	5 49 21.87	−64.56	19 37 54.5	−18.7	0.172310	12 21
18	5 48 17.31	64.47	+19 37 35.8	17.5	0.172756	12 22
☍ 19	5 47 12.84	64.30	19 37 18.3	16.3	0.173283	12 23
20	5 46 8.54	64.05	19 37 2.0	15.0	0.173893	12 24
21	5 45 4.49	63.72	19 36 47.0	13.7	0.174585	12 25
22	5 44 0.77	−63.30	19 36 33.3	−12.4	0.175358	12 26
23	5 42 57.47	62.81	+19 36 20.9	11.1	0.176208	12 28
24	5 41 54.66	62.23	19 36 9.8	9.7	0.177143	12 30
25	5 40 52.43	61.57	19 36 0.1	8.2	0.178159	12 31
26	5 39 50.86	60.82	19 35 51.9	6.7	0.179253	12 33
27	5 38 50.04	−60.00	19 35 45.2	−5.2	0.180423	12 35
28	5 37 50.04	59.11	+19 35 40.0	3.7	0.181671	12 37
29	5 36 50.93	58.14	19 35 36.3	2.1	0.182995	12 39
30	5 35 52.79	57.09	19 35 34.2	−0.4	0.184393	12 42
31	5 34 55.70	55.97	19 35 33.8	+1.3	0.185865	12 45
32	5 33 59.73	−54.79	19 35 35.1	+3.1	0.187409	12 48
33	5 33 4.94	53.54	+19 35 38.2	5.0	0.189023	12 51
34	5 32 11.40		19 35 43.2		0.190705	12 53

Opp. in AR. Dez. 19 Größe = 10.5

P. Neugebauer.

(154) BERTHA 1910.

12^h Mittl. Zeit	AR.	Diff.	Dekl.	Diff.	Log. Δ	Aberr.-Zt.
Nov. 28	6^h 37^m 25^s.07	−56^s.76	+45° 30′ 56″.3	+7′ 48″.2	0.386075	20^m 13^s
29	6 36 28.31	58.63	45 38 44.5	7 41.8	0.384753	20 9
30	6 35 29.68	60.47	45 46 26.3	7 35.0	0.383473	20 5
Dez. 1	6 34 29.21	62.27	45 54 1.3	7 27.7	0.382235	20 2
2	6 33 26.94	−64.03	46 1 29.0	+7 19.8	0.381040	19 59
3	6 32 22.91	65.75	+46 8 48.8	7 11.6	0.379890	19 56
4	6 31 17.16	67.43	46 16 0.4	7 2.8	0.378784	19 53
5	6 30 9.73	69.04	46 23 3.2	6 53.5	0.377724	19 50
6	6 29 0.69	70.59	46 29 56.7	6 43.7	0.376712	19 47
7	6 27 50.10	−72.09	46 36 40.4	+6 33.5	0.375747	19 44
8	6 26 38.01	73.53	+46 43 13.9	6 22.8	0.374830	19 42
9	6 25 24.48	74.90	46 49 36.7	6 11.8	0.373962	19 40
10	6 24 9.58	76.21	46 55 48.5	6 0.4	0.373144	19 37
11	6 22 53.37	77.46	47 1 48.9	5 48.6	0.372377	19 35
12	6 21 35.91	−78.63	47 7 37.5	+5 36.4	0.371661	19 33
13	6 20 17.28	79.72	+47 13 13.9	5 23.8	0.370996	19 31
14	6 18 57.56	80.74	47 18 37.7	5 11.0	0.370383	19 29
15	6 17 36.82	81.69	47 23 48.7	4 57.9	0.369823	19 28
16	6 16 15.13	82.55	47 28 46.6	4 44.6	0.369315	19 26
17	6 14 52.58	−83.33	47 33 31.2	+4 31.0	0.368861	19 25
18	6 13 29.25	84.02	+47 38 2.2	4 17.1	0.368459	19 24
19	6 12 5.23	84.63	47 42 19.3	4 3.0	0.368111	19 24
20	6 10 40.60	85.16	47 46 22.3	3 48.6	0.367818	19 23
21	6 9 15.44	85.60	47 50 10.9	3 34.2	0.367579	19 23
22	6 7 49.84	−85.94	47 53 45.1	+3 19.6	0.367394	19 22
☍ 23	6 6 23.90	86.18	+47 57 4.7	3 4.8	0.367264	19 22
24	6 4 57.72	86.32	48 0 9.5	2 49.9	0.367188	19 21
25	6 3 31.40	86.37	48 2 59.4	2 34.9	0.367167	19 21
26	6 2 5.03	86.32	48 5 34.3	2 19.9	0.367201	19 21
27	6 0 38.71	−86.16	48 7 54.2	+2 4.9	0.367289	19 21
28	5 59 12.55	85.89	+48 9 59.1	1 49.9	0.367432	19 21
29	5 57 46.66	85.52	48 11 49.0	1 34.8	0.367630	19 22
30	5 56 21.14	85.07	48 13 23.8	1 19.8	0.367882	19 23
31	5 54 56.07	84.53	48 14 43.6	1 4.7	0.368187	19 24
32	5 53 31.54	−83.89	48 15 48.3	+0 49.8	0.368544	19 25
33	5 52 7.65	83.15	+48 16 38.1	0 35.0	0.368953	19 26
34	5 50 44.50		48 17 13.1		0.369415	19 27

Opp. in AR. Dez. 23 Gröſse = 11.4

P. Neugebauer.

NACHWEISUNGEN
ÜBER DIE KLEINEN PLANETEN (1)–(674).

Zur genaueren Bezeichnung derjenigen Stellen, an welchen die betreffenden Mitteilungen über die kleinen Planeten sich befinden, sind bei sämtlichen hier benutzten Zeitschriften, nämlich bei den Astronomischen Nachrichten (A. N.), dem Bulletin Astronomique (B. A.), den Monthly Notices (M. N.) die Band- und Seitenzahlen angegeben.

A. Beobachtungen.

Angaben über genäherte Positionen und Ephemeridenkorrektionen sind durch ein Sternchen neben der Jahreszahl gekennzeichnet.

Nr. und Name	Beobachtungsort	Opposition	Publikation
1 Ceres	Hamburg . .	1903	A. N. 179, 247
	Nizza . . .	1908	B. A. 26, 77
	Marseille . .	»	» » 26, 125
	Uccle . . .	»	A. N. 181, 223
2 Pallas	Uccle . . .	»	» » 181, 223
	Nizza . . .	»	B. A. 26, 77
	Marseille . .	»	» » 26, 124
	Bordeaux . .	»	» » 26, 315
3 Juno	Hamburg . .	1903	A. N. 179, 247
	Padua . . .	1908	» » 180, 207
	Arcetri . . .	»	» » 181, 317
	Uccle . . .	»	» » 181, 223
	Nizza . . .	»	B. A. 26, 77
4 Vesta	Marseille . .	»	» » 26, 44
	Nizza . . .	»	» » 26, 78
	Utrecht . .	»	A. N. 181, 173
	Uccle . . .	»	» » 181, 223
6 Hebe	Hamburg . .	1903	» » 179, 247
	Greenwich . .	1907	M. N. 69, 43
	Düsseldorf . .	1908	A. N. 180, 125
7 Iris	Arequipa . .	1898	» » 179, 207
8 Flora	Greenwich . .	1907	M. N. 69, 42
	Düsseldorf . .	1908	A .N. 180, 125
	Genf . . .	»	» » 180, 361
	Utrecht . . .	»	» » 181, 173
9 Metis	Hamburg . .	1903	» » 179, 247
	Greenwich . .	1907	M. N. 69, 44
10 Hygiea	Arequipa . .	1900*	A. N. 179, 207
	Hamburg . .	1902	» » 179, 245
	Heidelberg . .	1909*	» » 180, 103

Nr. und Name	Beobachtungsort	Opposition	Publikation
11 Parthenope	Arequipa . .	1900*	A. N. 179, 207
	Hamburg . .	1903	» » 179, 247
	Greenwich . .	1907	M. N. 69, 42
	Düsseldorf . .	1908	A. N. 180, 125
15 Eunomia	Heidelberg . .	1909*	» » 180, 103
17 Thetis	Hamburg . .	1903	» » 179, 247
	Bordeaux . .	1906	B. A. 26, 315
	Greenwich . .	1907	M. N. 69, 44
	Düsseldorf . .	1908	A. N. 180, 127
	Jena . . .	»	» » 180, 333
	Genf . . .	»	» » 180, 361
	Kasan . . .	»	» » 181, 51
	Utrecht . . .	»	» » 181, 173
18 Melpomene	Hamburg . .	1903	» » 179, 247
19 Fortuna	Hamburg . .	1902	» » 179, 245
	Marseille . .	1908	B. A. 25, 461
	Düsseldorf . .	»	A. N. 180, 127
	Jena . . .	»	» » 180, 333
	Genf . . .	»	» » 180, 361
	Kasan . . .	»	» » 181, 49
	Utrecht . . .	»	» » 181, 173
	Mailand . .	»	» » 181, 215
	Bordeaux . .	»	B. A. 26, 316
	Kopenhagen .	»	A. N. 179, 361
22 Kalliope	Hamburg . .	1903	» » 179, 247
	Heidelberg . .	1909*	» » 180, 392, 181, 77
24 Themis	Hamburg . .	1903	» » 179, 249
	Düsseldorf . .	1908	» » 180, 127
	Bordeaux . .	»	B. A. 26, 316
	Kopenhagen .	»	A. N. 179, 359
26 Proserpina	Bordeaux . .	1905	} B. A. 26, 316
	Bordeaux . .	1909	
	Breslau . .	1909*	A. N. 180, 359
28 Bellona	Heidelberg . .	1908/09*	» » 179, 339, 180, 101, 103
	Düsseldorf . .	1908	» » 180, 127
	Jena . . .	»	» » 180, 335
	Poughkeepsie .	»	» » 181, 191
	Mailand . .	»	» » 181, 215
	Marseille . .	»	B. A. 26, 309
	Bordeaux . .	1908/09	» » 26, 316
29 Amphitrite	Hamburg . .	1903	A. N. 179, 249
31 Euphrosyne	Greenwich . .	1907	M. N. 69, 43
34 Circe	Kopenhagen .	1908	A. N. 179, 361
35 Leukothea	Arequipa . .	1899*	» » 179, 207

Nr. und Name	Beobachtungsort	Opposition	Publikation
35 Leukothea	Greenwich . .	1907	M. N. 69, 43
37 Fides	Marseille . .	»	B. A. 26, 211
	Bordeaux . .	»	» » 26, 317
	Heidelberg . .	1909*	A. N. 181, 14, 48
	Genf . . .	»	» » 181, 361
39 Laetitia	Hamburg . .	1903	» » 179, 249
40 Harmonia	Hamburg . .	1902	» » 179, 245
42 Isis	Bordeaux . .	1906	B. A. 26, 317
	Genf . . .	1909	A. N. 181, 359
44 Nysa	Greenwich . .	1907	M. N. 69, 45
	Heidelberg . .	1908/09*	A. N. 180, 15, 103
46 Hestia	Hamburg . .	1902	» » 179, 245
	Kasan . . .	1908	» » 181, 49
	Marseille . .	»	B. A. 25, 461
47 Aglaja	Kopenhagen .	»	A. N. 179, 359
	Heidelberg . .	1909*	» » 180, 391
48 Doris	Hamburg . .	1902	» » 179, 245
	Heidelberg . .	1909*	» » 180, 213, 181, 14
49 Pales = [1908 *BS*] . .	Wien . . .	1908	» » 180, 221
50 Virginia	Arequipa . .	1899*	» » 179, 207
51 Nemausa	Hamburg . .	1903	» » 179, 249
53 Kalypso	Greenwich . .	1907	M. N. 69, 46
	Genf . . .	1909	A. N. 181, 359
54 Alexandra	Heidelberg . .	1909*	» » 180, 103
57 Mnemosyne	Hamburg . .	1903	» » 179, 249
	Greenwich . .	1907	M. N. 69, 43
	Bordeaux . .	»	B. A. 26, 317
	Bordeaux . .	1908	B. A. 26, 317
	Marseille . .	»	» » 25, 462
	Rom . . .	»	A. N. 179, 329
	Kopenhagen .	»	» » 179, 361
	Genf . . .	»	» » 180, 361
	Kasan . . .	»	» » 181, 51
	Düsseldorf . .	»	» » 180, 127
	Düsseldorf . .	1909*	» » 182, 61
58 Concordia	Kopenhagen .	1907	» » 179, 357
	Mundenheim .	1909	» » 182, 75
59 Elpis	Heidelberg . .	1909*	» » 182, 251
61 Danae	Heidelberg . .	»	» » 180, 103
63 Ausonia	Heidelberg . .	»	» » 180, 103, 104, 199
	Kopenhagen .	1909	» » 180, 119
64 Angelina	Kopenhagen .	»	» » 180, 119
	Heidelberg . .	1909*	» » 180, 101, 102, 104
65 Cybele	Greenwich . .	1907	M. N. 69, 44
	Jena	1908	A. N. 180, 335

Nr. und Name	Beobachtungsort	Opposition	Publikation
65 Cybele	Genf . . .	1908	A. N. 180, 361
	Utrecht . .	»	» » 181, 173
66 Maja	Heidelberg . .	1909*	» » 181, 48
68 Leto	Greenwich . .	1907	M. N. 69, 43
70 Panopaea	Arequipa . .	1899*	A. N. 179, 208
71 Niobe	Greenwich . .	1907	M. N. 69, 45
	Düsseldorf . .	1908	A. N. 180, 127
	Jena . . .	»	» » 180, 335
72 Feronia	Heidelberg . .	1909*	» » 181, 14
74 Galatea	Heidelberg . .	1908*	» » 179, 43
	Wien . . .	1908	» » 180, 217
76 Freia	Heidelberg . .	1909*	» » 181, 47
77 Frigga	Kopenhagen .	1908	» » 179, 361
78 Diana	Heidelberg . .	1908*	» » 179, 275
	Rom . . .	1908	» » 179, 331
	Düsseldorf . .	»	» » 180, 127
	Jena . . .	»	» » 180, 335
	Kasan . . .	»	» » 181, 51, 59
	Utrecht . . .	»	» » 181, 173
	Poughkeepsie .	»	» » 181, 191
79 Eurynome	Hamburg . .	1903	» » 179, 249
	Bordeaux . .	1905	B. A. 26, 317
	Greenwich . .	1907	M. N. 69, 42
	Rom . . .	1908	A. N. 179, 329
	Marseille . .	»	B. A. 25, 462
	Nizza . . .	»	» » 26, 131
80 Sappho	Arequipa . .	1899*	A. N. 179, 208
82 Alkmene	Bordeaux . .	1905	B. A. 26, 317
	Greenwich . .	1907	M. N. 69, 43
83 Beatrix	Arequipa . .	1899*	A. N. 179, 208
84 Klio	Rom . . .	1908	» » 179, 329
86 Semele	Greenwich . .	1907	M. N. 69, 44
88 Thisbe	Heidelberg . .	1908*	A. N. 179, 100
89 Julia	Heidelberg . .	1909*	» » 180, 101, 102
	Kopenhagen .	1909	» » 180, 119
90 Antiope	Hamburg . .	1903	» » 179, 249
92 Undina	Bordeaux . .	1905	B. A. 26, 317
94 Aurora	Hamburg . .	1903	A. N. 179, 249
	Heidelberg . .	1909*	» » 180, 214
95 Arethusa	Düsseldorf . .	»	» » 181, 387
	Heidelberg . .	»	» » 182, 63
97 Klotho	Hamburg . .	1903	» » 179, 249
100 Hekate	Arequipa . .	1900	» » 179, 208
	Heidelberg . .	1909*	» » 180, 103, 167
103 Hera	Hamburg . .	1902	» » 179, 245

Nr. und Name	Beobachtungsort	Opposition	Publikation
103 Hera	Heidelberg . .	1908*	A. N. 179, 99
106 Dione	Jena . . .	1908	» » 180, 335
	Nizza . . .	1908	B. A. 26, 131
	Marseille . .	1908/09	» » 26, 310
108 Hecuba	Hamburg . .	1903	A. N. 179, 251
	Kopenhagen .	1907	» » 179, 357
	Heidelberg . .	1909*	» » 180, 214
110 Lydia	Heidelberg . .	1908*	» » 179, 148
	Düsseldorf . .	1908	» » 180, 127
	Nizza . . .	»	B. A. 26, 131
111 Ate	Taunton . .	1908*	A. N. 179, 43
	Heidelberg . .	»	» » 179, 44
113 Amalthea	Düsseldorf . .	1908	» » 180, 127
	Kasan . . .	»	» » 181, 51
	Utrecht . . .	»	» » 181, 173
	Mundenheim .	»	» » 182, 75
	Marseille . .	»	B. A. 25, 462
	Bordeaux . .	»	» » 26, 317
114 Kassandra	Heidelberg . .	1909*	A. N. 180, 391
115 Thyra	Krakau . . .	1908*	» » 179, 47
117 Lomia	Greenwich . .	1907	M. N. 69, 45
118 Peitho	Arequipa . .	1899*	A. N. 179, 208
	Düsseldorf . .	1908	» » 180, 127
	Jena . . .	»	» » 180, 335
	Utrecht . . .	»	» » 181, 173
119 Althaea	Heidelberg . .	1909*	» » 180, 213
120 Lachesis	Heidelberg . .	1908*	» » 179, 241
122 Gerda	Greenwich . .	1907	M. N. 69, 45
	Jena . . .	1908	A. N. 180, 335
	Kasan . . .	»	» » 181, 51
124 Alkeste	Heidelberg . .	1909	» » 181, 387
	Greenwich . .	1909*	» » 181, 131
128 Nemesis	Heidelberg . .	1908*	» » 179, 82
129 Antigone	Genf . . .	1908	» » 180, 361
	Nizza . . .	»	B. A. 26, 78, 131
131 Vala	Heidelberg . .	1908*	A. N. 179, 82
134 Sophrosyne	Düsseldorf . .	1908	» » 180, 127
	Jena . . .	»	» » 180, 335
	Kasan . . .	»	» » 181, 49
	Bordeaux . .	»	B. A. 26, 317
135 Hertha	Hamburg . .	1902	A. N. 179, 245
	Kopenhagen .	1908	» » 179, 359
143 Adria	Heidelberg . .	1909*	» » 182, 225
145 Adeona	Heidelberg . .	»	» » 180, 104
147 Protogeneia	Kopenhagen .	»	» » 182, 225

Nr. und Name	Beobachtungsort	Opposition	Publikation
148 Gallia	Greenwich . .	1907	M. N. 69, 44
	Heidelberg . .	1908*	A. N. 179, 82
149 Medusa	Heidelberg . .	1909*	» » 180, 214
	Nizza . . .	1909	B. A. 26, 311
156 Xanthippe	Bordeaux . .	1905	» » 26, 318
157 Dejanira	Heidelberg . .	1908*	A. N. 179, 163
158 Koronis	Taunton . .	»	» » 179, 93
159 Aemilia	Arequipa . .	1900*	» » 179, 208
161 Athor	Heidelberg . .	1909*	» » 181, 14, 48
163 Erigone	Hamburg . .	1903	» » 179, 251
166 Rhodope	Heidelberg . .	1909*	» » 180, 104
168 Sibylla	Heidelberg . .	1908*	» » 179, 276
174 Phaedra	Heidelberg . .	1909*	» » 180, 103
175 Andromache . . .	Heidelberg . .	»	» » 180, 104
179 Klytaemnestra . . .	Heidelberg . .	1908*	» » 179, 276
184 Dejopeja	Nizza . . .	1908	B. A. 25, 422
185 Eunike	Greenwich . .	1907	M. N. 69, 44
186 Celuta	Heidelberg . .	1908*	A. N. 179, 81
	Taunton . .	»	» » 179, 93
187 Lamberta	Heidelberg . .	1909*	» » 180, 101
188 Menippe	Heidelberg . .	»	» » 180, 103
189 Phthia	Arequipa . .	1900*	» » 179, 208
190 Ismene	Greenwich . .	1907	M. N. 69, 44
	Nizza . . .	1908	B. A. 26, 131
192 Nausikaa	Marseille . .	1907	» » 26, 211
	Greenwich . .	»	M. N. 69, 46
195 Eurykleia	Wien . . .	1908	A. N. 180, 217
196 Philomela	Rom . . .	»	» » 179, 329
	Arcetri . . .	»	» » 181, 317
198 Ampella	Kopenhagen .	1907/08	» » 179, 359
199 Byblis	Greenwich . .	1907	M. N. 69, 44
203 Pompeja	Heidelberg . .	1909*	A. N. 181, 14
213 Lilaea	Heidelberg . .	»	» » 182, 251
216 Kleopatra	Arequipa . .	1899*	» » 179, 208
	Bordeaux . .	1905	B. A. 26, 318
217 Eudora	Wien . . .	1909*	A. N. 181, 387
221 Eos	Heidelberg . .	»	» » 180, 391, 181, 77
223 Rosa	Heidelberg . .	»	» » 180, 104
225 Henrietta	Nizza . . .	1908	B. A. 25, 422
241 Germania	Hamburg . .	1903	A. N. 179, 251
	Düsseldorf . .	1908	» » 180, 129
	Marseille . .	»	B. A. 25, 461
	Heidelberg . .	1909*	A. N. 181, 13
	Genf . . .	1909	» » 181, 361
247 Eukrate	Hamburg . .	1903	» » 179, 251

Nr. und Name	Beobachtungsort	Opposition	Publikation
247 Eukrate	Düsseldorf . .	1908	A. N. 180, 129
	Marseille . .	»	B. A. 25, 461
258 Tyche	Düsseldorf . .	»	A. N. 180, 129
261 Prymno	Heidelberg . .	1909*	» » 180, 103
266 Aline	Heidelberg . .	»	» » 180, 103
267 Tirza	Heidelberg . .	»	» » 180, 103, 104
270 Anahita	Arequipa . .	1899*	» » 179, 208
	Hamburg . .	1903	» » 179, 251
	Genf . . .	1909	» » 181, 359
277 Elvira	Wien . . .	»	» » 182, 111
	Heidelberg . .	1909*	» » 182, 251
278 Paulina	Heidelberg . .	1908*	» » 179, 147
	Nizza . . .	1908	B. A. 26, 127
283 Emma	Nizza . . .	»	» » 26, 127
	Kopenhagen .	»	A. N. 181, 217
288 Glauke	Kopenhagen .	1907/08	» » 179, 359
289 Nenetta	Heidelberg . .	1909*	» » 180, 101
	Nizza . . .	1909	B. A. 26, 209
303 Josephina	Rom . . .	1908	A. N. 179, 327
308 Polyxo	Heidelberg . .	1909*	» » 180, 214
312 Pierretta	Wien . . .	1908	» » 180, 217
	Kasan . . .	»	» » 181, 49
313 Chaldaea	Rom . . .	»	» » 179, 327
	Genf . . .	»	» » 180, 361
	Kasan . . .	»	» » 181, 49
	Utrecht . .	»	» » 181, 173
	Mailand . .	»	» » 181, 215
	Heidelberg . .	1909*	» » 181, 387
	Kopenhagen .	1909	» » 182, 95
314 Rosalia	Heidelberg . .	1908*	» » 179, 242
	Nizza . . .	1908	B. A. 26, 128
322 Phaeo	Heidelberg . .	1909*	A. N. 181, 387
	Kopenhagen .	1909	» » 182, 95
324 Bamberga	Hamburg . .	1903	» » 179, 251
	Heidelberg . .	1909*	» » 180, 102, 103
	Nizza . . .	1909	B. A. 26, 209
325 Heidelberga	Heidelberg . .	1909*	A. N. 180, 104
326 Tamara	Greenwich . .	1907	M. N. 69, 46
336 Lacadiera	Arequipa . .	1898*	A. N. 179, 208
338 Budrosa	Heidelberg . .	1909*	» » 180, 103, 104, 168
340 Eduarda	Kopenhagen .	1908	» » 179, 359
345 Tercidina	Heidelberg . .	1909*	» » 182, 63
346 Hermentaria	Kopenhagen .	1908	» » 179, 359
349 Dembowska	Heidelberg . .	1909*	» » 180, 104, 214
351 Yrsa	Bordeaux . .	1907	B. A. 26, 318

Nr. und Name	Beobachtungsort	Opposition	Publikation
352 Gisela	Kopenhagen .	1908	A. N. 181. 217
360 Carlova	Rom . . .	1907/08	» » 179, 325
	Utrecht . . .	1908	» » 181, 171
	Kopenhagen .	»	» » 179, 359
361 Bononia	—	1909*	» » 180, 327
362 Havnia	Heidelberg . .	»	» » 180, 102, 103
	Nizza . . .	1909	B. A. 26, 210
365 Corduba	Heidelberg . .	1909*	A. N. 182, 163
	Kopenhagen .	1909	» » 182, 225
366 Vincentina	Heidelberg . .	1909*	» » 180, 104, 199
367 Amicitia	Heidelberg . .	»	» » 180, 104
376 Geometria	Heidelberg . .	»	» » 180, 104
382 Dodona	Nizza . . .	1908	B. A. 26, 128
384 Burdigala	Arequipa . .	1899*	A. N. 179, 208
	Heidelberg . .	1909*	» » 182, 63
387 Aquitania	Paris . . .	1908	B. A. 26, 123
388 Charybdis	Heidelberg . .	1909*	A. N. 180, 103
390 Alma	Heidelberg . .	»	» » 182, 195
391 Ingeborg	Rom . . .	1908	» » 179, 331
	Wien . . .	»	» » 180, 217
	Kopenhagen .	»	» » 181, 217
	Nizza . . .	»	B. A. 26, 131
393 Lampetia	Greenwich . .	1907	M. N. 69. 44
	Kopenhagen .	1908	A. N. 181, 217
398 Admete = [1907 [*AB*] .	Heidelberg . .	1909*	» » 180, 199
		»	» » 180, 247
	Nizza . . .	1909	B. A. 26, 311
402 Chloë	Hamburg . .	1903	A. N. 179, 251
	Bordeaux . .	1907	B. A. 26, 318
	Greenwich . .	»	M. N. 69, 42
403 Cyane	Heidelberg . .	1909*	A. N. 181, 48
405 Thia	Hamburg . .	1903	» » 179, 251
	Taunton . .	1908*	» » 179, 93
407 Arachne	Heidelberg . .	»	» » 179, 241
409 Aspasia	Arequipa . .	1899*	» » 179. 208
	Kopenhagen .	1909	» » 180. 119
410 Chloris	Nizza . . .	1908	B. A. 26, 128
414 Liriope = [1907 *BE*] .	Heidelberg . .	1909*	A. N. 180, 103
416 Vaticana	Heidelberg . .	»	» » 180, 102
417 Suevia	Heidelberg . .	»	» » 180, 213
419 Aurelia	Marseille . .	1908	B. A. 25, 462
420 Bertholda	Heidelberg . .	1909*	A. N. 182, 252
421 Zähringia	Rom . . .	1908	» » 179, 331
	Wien . . .	»	» » 180, 217
423 Diotima	Kopenhagen .	1909*	» » 180, 183

Nr. und Name	Beobachtungsort	Opposition	Publikation
423 Diotima	Heidelberg	1909*	A. N. 180, 213
426 Hippo	Heidelberg	1908*	» » 179, 275
	Rom	»	» » 179, 307
427 Galene	Heidelberg	»	» » 179, 242
429 Lotis.	Rom	1908	» » 179, 327
	Wien	»	» » 180, 217
	Kopenhagen	1909	» » 182, 95
431 Nephele	Greenwich	1907	M. N. 69, 45
	Nizza	1908	B. A. 26, 128
432 Pythia	Hamburg	1903	A. N. 179, 251
	Heidelberg	1908*	» » 179, 339
	Bordeaux	1905	B. A. 26, 318
433 Eros	Denver	1907/08	A. N. 180, 345
	Greenwich	1907	M. N. 69, 46
	Kopenhagen	»	A. N. 179, 357
434 Hungaria	Bordeaux	1906	B. A. 26, 318
	Rom	1908	A. N. 179, 327
	Wien	»	» » 180, 217
435 Ella	Wien	»	» » 180, 217
440 Theodora	Wien	1906	» » 180, 240
441 Bathilde	Greenwich	1907	M. N. 69, 46
	Heidelberg	1909*	A. N. 180, 103
	Rom	»	» » 180, 247
442 Eichsfeldia	Hamburg	1903	» » 179, 251
443 Photographica	Heidelberg	1909*	» » 180, 391
	Rom	»	» » 180, 391
	Nizza	1909	B. A. 26, 311
444 Gyptis	Bordeaux	1905	» » 26, 318
	Marseille	1908	» » 25, 461
	Rom	»	A. N. 179, 327
	Algier	»	» » 181, 201
	Heidelberg	1909*	» » 181, 77
	Mundenheim	1909	» » 182, 75
	Düsseldorf	1909*	» » 181, 89
447 Valentine	Wien	1906	» » 180, 239
	Rom	1908	» » 179, 329
	Kopenhagen	1909*	» » 182, 225
	Heidelberg	»	» » 182, 251
449 Hamburga	Heidelberg	»	» » 180, 214
451 Patientia	Bordeaux	1907	B. A. 26, 319
	Greenwich	»	M. N. 69, 43
453 Tea	Heidelberg	1908*	A. N. 179, 241, 242
	Nizza	1908	B. A. 26, 128, 131
456 Abnoba	Rom	1909*	A. N. 181, 15
	Heidelberg	»	» » 181, 13

Nr. und Name	Beobachtungsort	Opposition	Publikation
462 Eriphyla	Heidelberg . .	1909*	A. N. 181, 387
465 Alekto = [1907 *YD*] .	Taunton . .	1908*	» » 179, 43
	Nizza . . .	1908	B. A. 26, 132
469 Argentina	Heidelberg . .	1909*	A. N. 182, 251
470 Kilia	Bordeaux . .	1905	B. A. 26, 319
	Rom . . .	1908	A. N. 179, 327
	Wien . . .	»	» » 180, 217
471 Papagena	Marseille . .	1907	B. A. 26, 211
	Heidelberg . .	1909*	A. N. 180, 104
	Rom . . .	»	» » 180, 135
	Genf . . .	1909	» » 181, 359
	Nizza . . .	»	B. A. 26, 311
472 Roma	Rom . . .	1908	A. N. 179, 327
	Jena . . .	»	» » 180, 335
	Kasan . . .	»	» » 181, 49
	Rom . . .	1909*	» » 181, 179
	Heidelberg . .	»	» » 181, 226
477 Italia	Rom . . .	1908	» » 179, 329
	Nizza . . .	»	B. A. 26, 132
478 Tergeste	Hamburg . .	1903	A. N. 179, 251
	Rom . . .	1907	» » 179, 325
	—	1909*	» » 180, 327
481 Emita	Rom . . .	1908	» » 179, 329
482 Petrina	Wien . . .	»	» » 180, 217
	Wien . . .	1909*	» » 182, 179
483 Seppina	Rom . . .	»	» » 181, 15
	Heidelberg . .	»	» » 181, 13
485 Genua	Wien . . .	1904	» » 180, 239
	Greenwich . .	1907	M. N. 69, 44
	Rom . . .	1908	A. N. 179, 329
	Wien . . .	»	» » 180, 217
	Nizza . . .	»	B. A. 26, 132
	Arcetri . . .	»	A. N. 181, 319
487 Venetia	Kopenhagen .	1909*	» » 180, 183
488 Kreusa	Wien . . .	1905/06	» » 180, 240
	Greenwich . .	1907	M. N. 69, 43
	Nizza . . .	1908	B. A. 26, 132
490 Veritas	Heidelberg . .	1908*	A. N. 179, 148
	Wien . . .	1908	» » 180, 217
	Kopenhagen .	»	» » 181, 217
	Nizza . . .	»	B. A. 26, 128
491 Carina	Nizza . . .	»	» » 26, 128
495 Eulalia	Wien . . .	»	A. N. 180, 219
498 Tokio	Rom . . .	»	» » 179, 325

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498 Tokio	Heidelberg . .	1909*	A. N. 180, 359, 181, 14, 47
	Rom . . .	»	» » 180, 391
	Nizza . . .	1909	B. A. 26, 311
500 Selinur	Wien . . .	1908	A. N. 180, 219
501 Urhixidur	Wien . . .	1903	» » 180, 237
	Heidelberg . .	1909*	» » 180, 104
502 Sigune	Wien . . .	1904	» » 180, 239
503 Evelyn	Wien . . .	1903	» » 180, 237
504 Cora	Rom . . .	1907	» » 179, 325
	Heidelberg . .	1909*	» » 180, 103
505 Cava	Wien . . .	1904	» » 180, 239
	Heidelberg . .	1909*	» » 180, 311
	Nizza . . .	1909	B. A. 26, 311
506 Marion	Rom . . .	1908	A. N. 179, 327
	Wien . . .	»	» » 180, 219
	Kopenhagen .	»	» » 179, 359
507 Laodica	Heidelberg . .	1909*	» » 180, 200
	Rom . . .	»	» » 180, 359
	Nizza . . .	1909	B. A. 26, 312
508 Princetonia	Wien . . .	1903	A. N. 180, 238
	Wien . . .	1908	» » 180, 219
	Kasan . . .	»	» » 181, 49
	Kopenhagen .	»	» » 179, 359
509 Iolanda	Rom . . .	1908	» » 179, 327
	Rom . . .	1909*	» » 181, 243
	Wien . . .	»	» » 181, 217
	Heidelberg . .	»	» » 181, 225
510 Mabella	Düsseldorf . .	1908	» » 180, 129
	Wien . . .	»	» » 180, 219
	Nizza . . .	»	B. A. 26, 128
511 Davida	Greenwich . .	1907	M. N. 69, 42
	Rom . . .	1908	A. N. 179, 327
	Kopenhagen .	»	» » 179, 361
	Düsseldorf . .	»	» » 180, 129
	Wien . . .	»	» » 180, 219
	Kasan . . .	»	» » 181, 49
	Mailand . .	»	» » 181, 215
	Besançon . .	1909*	» » 181, 189
	Heidelberg . .	»	» » 181, 226
513 Centesima	Wien . . .	1903	» » 180, 238
	Rom . . .	1908	» » 179, 329
	Arcetri . . .	»	» » 181, 319
	Nizza . . .	»	B. A. 26, 132
514 Armida	Wien . . .	1903	A. N. 180, 238

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516 Amherstia	Greenwich . .	1907	M. N. 69, 45
	Heidelberg . .	1908*	A. N. 179, 148
	Rom . . .	1908	» » 179, 331
	Kopenhagen .	»	» » 181, 217
	Nizza . . .	»	B. A. 26, 132
518 Halawe	Wien . . .	1903	A. N. 180, 238
521 Brixia	Wien . . .	1904	» » 180, 239
	Heidelberg . .	1909*	» » 180, 104
	Rom . . .	»	» » 180, 149
	Genf . . .	1909	» » 181, 359
523 Ada	Heidelberg . .	1908/09*	» » 180, 15
	Rom . . .	1909*	» » 180, 47
	Nizza . . .	1909	B. A. 26, 210
524 Fidelio	Rom . . .	1908	A. N. 179, 327
	Wien . . .	»	» » 180, 219
526 Jena	Rom . . .	1909*	» » 180, 59
	Heidelberg . .	»	» » 180, 102
	Arcetri . . .	1909	» » 182, 161
	Nizza . . .	»	B. A. 26, 210
527 Euryanthe	Wien . . .	1909*	A. N. 181, 217
	Heidelberg . .	»	» » 181, 225
528 Rezia	Rom . . .	1907	» » 179, 325
	Heidelberg . .	1908/09*	» » 180, 15, 47, 102
	Rom . . .	1909*	» » 180, 47
	Nizza . . .	1909	B. A. 26, 210
530 Turandot	Heidelberg . .	1909*	A. N. 180, 214
532 Herculina	Rom . . .	1907/08	» » 179, 325
	Düsseldorf . .	1908	» » 180, 129
	Utrecht . . .	»	» » 181, 171
	Mailand . .	»	» » 181, 215
	Nizza . . .	»	B. A. 26, 79
	Marseille . .	»	» » 26, 211
	Bordeaux . .	»	» » 26, 319
	Besançon . .	1909*	A. N. 181, 79
	Heidelberg . .	»	» » 181, 77
	Mundenheim .	1909	» » 182, 75
533 Sara	Wien . . .	1904	» » 180, 239
534 Nassovia	Wien . . .	»	» » 180, 239
	Heidelberg . .	1909*	» » 181, 14
535 Montague	Wien . . .	1908	» » 180, 219
	Heidelberg . .	1909*	» » 182, 63
536 Merapi	Heidelberg . .	»	» » 180, 213
	Rom . . .	»	» » 180, 359
537 Pauly	Wien . . .	1904	» » 180, 239
	Kopenhagen .	1909*	» » 181, 79

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537 Pauly	Rom . . .	1909	A. N. 181, 79
	Heidelberg . .	1909*	» » 181, 77
538 Friederike	Heidelberg . .	»	» » 181. 179
540 Rosamunde . . .	Wien . . .	1904	» » 180, 239
	Heidelberg . .	1908*	» » 179, 163
	Nizza . . .	1908	B. A. 26, 129
541 Deborah	Wien . . .	1909*	A. N. 182, 195
542 Susanna	Rom . . .	1908	» » 179, 329
	Nizza . . .	»	B. A. 26, 132
	Heidelberg . .	1909*	A. N. 182, 252
543 Charlotte	Heidelberg . .	»	» » 182, 63
	Kopenhagen .	»	» » 182, 225
544 Jetta	Taunton . .	1908*	» » 179, 93
	Wien . . .	1908	» » 180, 219
	Nizza . . .	»	B. A. 26, 129
546 Herodias	Heidelberg . .	1908*	A. N. 179, 82
	Taunton . .	»	» » 179, 93
547 Praxedis	Wien . . .	1904	» » 180, 239
	Wien . . .	1908	» » 180, 219
	Rom . . .	»	» » 179, 329
	Arcetri . . .	»	» » 181, 319
	Nizza . . .	»	B. A. 25, 422
548 Kressida	Heidelberg . .	1909*	A. N. 180, 214
549 Jessonda	Heidelberg . .	1908*	» » 179, 44, 81
550 Senta	Wien . . .	1904/05	» » 180, 239
	Rom . . .	1908*	» » 179, 211
	Heidelberg . .	»	» » 179, 241, 276
	Nizza . . .	1908	B. A. 26, 129
551 Ortrud	Wien . . .	»	A. N. 180, 219
552 Sigelinde	Rom . . .	»	» » 179, 329
	Wien . . .	»	» » 180, 219
	Nizza . . .	»	B. A. 26, 132
554 Peraga	Greenwich . .	1907	M. N. 69, 45
	Besançon . .	»	B. A. 26, 42
	Kopenhagen .	1909*	A. N. 180, 183
	Heidelberg . .	»	» » 180, 213
	Nizza . . .	1909	B. A. 26, 312
556 Phyllis	Heidelberg . .	1909*	A. N. 180, 103
	Kopenhagen .	»	» » 180, 119
557 Violetta	Heidelberg . .	»	» » 180, 214
558 Carmen	Heidelberg . .	1908*	» » 179, 242
	Rom . . .	»	» » 179, 339
559 Nanon	Heidelberg . .	1909*	» » 180, 104, 199
560 Delila	Wien . . .	1905	» » 180, 240
562 Salome	Heidelberg . .	1909*	» » 180, 102, 103

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562 Salome	Rom . . .	1909*	A. N. 180, 183
563 Sulcika	Greenwich . .	1907	M. N. 69, 46
	Besançon . .	»	B. A. 26, 42
	Marseille . .	»	» » 26, 212
	Heidelberg . .	1909*	A. N. 180, 311
	Rom . . .	»	» » 180, 327
	Nizza . . .	1909	B. A. 26, 312
566 Stereoskopia . . .	Heidelberg . .	1909*	A. N. 180, 101
	Kopenhagen .	1909	» » 180, 119
	Nizza . . .	»	B. A. 26, 210
569 Misa	Wien . . .	1909*	A. N. 181, 387
570 [1905 *QX*]	Heidelberg . .	»	» » 180, 391
	Nizza . . .	1909	B. A. 26, 312
573 [1905 *RC*]	Wien . . .	1908	A. N. 180, 219
575 [1905 *RE*]	Heidelberg . .	1909*	» » 182, 225
577 [1905 *RH*]	Wien . . .	1908	» » 180, 219
578 [1905 *RZ*]	Wien . . .	»	» » 180, 219
	Heidelberg . .	1909*	» » 182, 225
579 [1905 *SD*]	Rom . . .	1908	» » 179, 329
	Wien . . .	»	» » 180, 219
582 [1906 *SO*]	Wien . . .	»	» » 180, 221
585 [1906 *TA*]	Heidelberg . .	1908*	» » 179, 147
	Wien . . .	1908	» » 180, 221
	Nizza . . .	»	B. A. 26, 129
587 [1906 *TF*]	Heidelberg . .	1908*	A. N. 179, 148
588 Achilles	Greenwich . .	1907	M. N. 69, 43
589 [1906 *TM*]	Rom . . .	1908	A. N. 179, 329
	Wien . . .	»	» » 180, 221
	Arcetri . . .	»	» » 181, 319
	Nizza . . .	»	B. A. 26, 132
595 [1906 *TZ*] = [1908 *EE*]	Heidelberg . .	1908*	A. N. 179, 81, 99
	Wien . . .	1908	» » 180, 231
	Nizza . . .	»	B. A. 26, 129
596 [1906 *UA*]	Heidelberg . .	1908*	A. N. 179, 100
	Nizza . . .	1908	B. A. 26, 129
599 [1906 *UJ*]	Marseille . .	1907	» » 26, 212
600 [1906 *UM*]	Heidelberg . .	1909*	A. N. 180, 101, 103
601 [1906 *UN*]	Wien . . .	1906	» » 180, 240
	Heidelberg . .	1909*	» » 180, 101
605 [1906 *UU*]	Wien . . .	1906	» » 180, 240
607 [1906 *VC*]	Heidelberg . .	1909*	» » 180, 392
609 [1906 *VF*]	Heidelberg . .	»	» » 180, 214
615 [1906 *VR*]	Wien . . .	1908	» » 180, 221
	Heidelberg . .	1909*	» » 181, 48
	Rom . . .	»	» » 181, 79

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617 Patroclus	Rom . . .	1907	A. N. 179, 325
	Greenwich . .	»	M. N. 69, 46
	Heidelberg . .	1909*	A. N. 180, 103
		1909	» » 180, 45
618 [1906 *VZ*]	Heidelberg . .	1909*	» » 180, 311
619 [1906 *WC*]	Heidelberg . .	»	» » 181, 225
622 [1906 *WP*]	Rom . . .	1908	» » 179, 327
	Wien	»	» » 180, 221
623 [1907 *XJ*]	Heidelberg . .	1909*	» » 182, 195
	Kopenhagen .	»	» » 182, 225
624 Hektor	Rom . . .	1908	» » 179, 327
	Wien	»	» » 180, 221
	Heidelberg . .	1909	» » 182, 25
635 [1907 *ZS*] = [1908 *DP*]	Wien . . .	1908	» » 180, 227
638 [1907 *ZQ*]	Taunton . .	1908*	» » 179, 93
639 [1907 *ZT*]	Heidelberg . .	»	» » 179, 241, 276
642 [1907 *ZY*]	Heidelberg . .	»	» » 179, 275
643 [1907 *ZZ*]	Arequipa . .	1899*	» » 179, 287
	Heidelberg . .	1908*	» » 179, 339
645 [1907 *AG*]	Washington .	1909*	» » 181, 192
648 [1907 *AE*]	Heidelberg . .	1909*	» » 180, 103, 213
651 [1907 *AN*]	Heidelberg . .	»	» » 180, 104
652 Jubilatrix	Heidelberg . .	»	» » 180, 101
654 Zelinda	Kopenhagen .	1908	» » 179, 359
	Rom . . .	»	» » 179, 325
	Düsseldorf . .	»	» » 180, 129
	Wien . . .	»	» » 180, 221
	Arcetri . . .	»	» » 180, 293
	Jena . . .	»	» » 180, 335
	Strafsburg . .	»	» » 181, 27
	Marseille . .	»	B. A. 26, 212
	Rom . . .	1909*	A. N. 181, 259
656 [1908 *BU*]	Wien . . .	1908	» » 180, 221
657 [1908 *BV*]	Wien . . .	»	» » 180, 223
658 [1908 *BW*]	Wien . . .	»	» » 180, 223
659 [1908 *CS*]	Heidelberg . .	1909	» » 182, 25
660 [1908 *CC*]	Washington .	1909*	» » 181, 92
663 [1908 *DG*]	Wien . . .	1908	» » 180, 223
664 [1908 *DH*]	Wien . . .	»	» » 180, 225
665 [1908 *DK*]	Wien . . .	»	» » 180, 225
666 [1908 *DM*]	Wien . . .	»	» » 180, 225
667 [1908 *DN*]	Wien . . .	»	» » 180, 227
668 [1908 *DO*]	Wien . . .	»	» » 180, 227
669 [1908 *DQ*]	Heidelberg . .	1908*	» » 179, 81
	Wien . . .	1908	» » 180, 227

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670 [1908 *DR*]	Heidelberg	1908*	A. N. 179, 81
	Wien	1908	» » 180, 229
671 [1908 *DV*]	Wien	»	» » 180, 229
672 [1908 *DY*]	Heidelberg	1908*	» » 179, 44
	Wien	1908	» » 180, 231
673 [1908 *EA*]	Heidelberg	1908*	» » 179, 44
	Taunton	»	» » 179, 94
	Wien	1908	» » 180, 231
674 Rachel	Heidelberg	1908*	» » 179, 148, 241
	Nizza	1908/09	» » 179, 227, 323, 181, 43
	Wien	»	» » 180, 231
	Düsseldorf	1908/09	» » 180, 129, 181, 159
	Utrecht	»	» » 181, 95
	Rom	»	» » 181, 289
	Genf	»	» » 181, 359
	Arcetri	»	» » 182, 161
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[1908 *BP*] .	Wien . . .	1908 Jan. 30	A. N. 180, 221
[1908 *BY*] .	Wien . . .	» Jan. 30	» » 180, 223
[1908 *CK*] .	Wien . . .	» März 11, 22, 27, April 1 .	» » 180, 223
[1908 *CR*] .	Wien . . .	» März 27, April 1	» » 180, 223
	Kopenhagen .	» März 27, April 1	» » 179, 359
[1908 *CT*] .	Wien . . .	» März 27, 28, April 1 . .	» » 180, 223
[1908 *DE*] .	Wien . . .	» Juni 4	» » 180, 223
[1908 *DO*ᵃ] .	Taunton . .	» Juli 30*	» » 179, 94
[1908 *DS*] .	Heidelberg . .	» Sept. 30*	» » 179, 81
[1908 *DT*] .	Greenwich . .	» Aug. 24, 25, 27, 28, 29, 30, Sept. 1, 2, 4	M. N. 69, 212,
[1908 *DT*ᵃ] .	Taunton . .	» Aug. 28*	A. N. 179, 94
[1908 *DU*] .	Taunton . .	» Aug. 30*, 31*	» » 179, 44
[1908 *DW*] .	Wien . . .	» Sept. 21, 22, 24, 28, 30, Okt. 2, 4, 5	» » 180, 229
[1908 *DX*] .	Wien . . .	» Sept. 24, 25, Okt. 1, 2, 4	» » 180, 229
	Heidelberg . .	» Sept. 21*	» » 179, 43
[1908 *DZ*] .	Wien . . .	» Sept. 24, 25, 30, Okt. 2, 4	» » 180, 231
	Heidelberg . .	» Sept. 21*.	» » 179, 44
[1908 *EB*] .	Heidelberg . .	» Sept. 21*, 30*	» » 179, 44, 81
[1908 *EC*] .	Heidelberg . .	» Sept. 30*	» » 179, 81
[1908 *ED*] .	Heidelberg . .	» Sept. 30*	» » 179, 81
[1908 *EF*] .	Heidelberg . .	» Okt. 2*	» » 179, 82
[1908 *EG*] .	Heidelberg . .	» Okt. 6*, 20*	» » 179, 82, 100
	Wien . . .	» Okt. 29, Nov. 2	» » 180, 231
[1908 *EH*] .	Heidelberg . .	» Okt. 6*	» » 179, 82
[1908 *EJ*] .	Taunton . .	» Sept. 30*, Okt. 3*	» » 179, 94
[1908 *EK*] .	Taunton . .	» Okt. 4*	» » 179, 94
[1908 *EL*] .	Heidelberg . .	» Okt. 27*	» » 179, 147
[1908 *EM*] .	Heidelberg . .	» Okt. 27*	» » 179, 147
	Wien . . .	» Nov. 2	» » 180, 231
[1908 *EN*] .	Heidelberg . .	» Okt. 27*	» » 179, 147
	Wien . . .	» Okt. 31	» » 180, 231
[1908 *EO*] .	Heidelberg . .	» Okt. 27*	» » 179, 147
[1908 *EQ*] .	Heidelberg . .	» Okt. 28*	» » 179, 148
	Wien . . .	» Nov. 2, 3	» » 180, 231
[1908 *ER*] .	Heidelberg . .	» Nov. 1*	» » 179, 163
[1908 *ES*] .	Heidelberg . .	» Nov. 1*	» » 179, 163
[1908 *ET*] .	Heidelberg . .	» Nov. 27*, 28*	» » 179, 241
[1908 *EU*] .	Heidelberg . .	» Nov. 27*, 28*	» » 179, 241, 242
[1908 *EV*] .	Heidelberg . .	» Nov. 28*	» » 179, 241
[1908 *EW*] .	Heidelberg . .	» Nov. 28*	» » 179, 242
[1908 *EX*] .	Heidelberg . .	» Nov. 28*	» » 179, 242
[1908 *EY*] .	Heidelberg . .	» Nov. 29*	» » 179, 242
[1908 *EZ*] .	Greenwich . .	» Dez. 17*	» » 179, 339

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[1908 *FA*] .	Heidelberg . .	1908 Dez. 16*, 1909 Febr. 13*, 18*	A. N. 179, 339 180, 213
[1908 *FB*] .	Heidelberg . .	» Dez. 16*	» » 179, 339
[1908 *FC*] .	Heidelberg . .	» Dez. 16*	» » 179, 339
[1908 *FD*] .	Heidelberg . .	» Dez. 16*	» » 179, 339
[1908 *FE*] .	Heidelberg . .	» Dez. 16*	» » 179, 340
[1908 *FF*] .	Heidelberg . .	» Dez. 16*	» » 179, 340
[1908 *FG*] .	Heidelberg . .	» Dez. 16*	» » 179, 340
[1908 *FH*] .	Heidelberg . .	» Dez. 31*	» » 179, 387
[1908 *FJ*] .	Heidelberg . .	» Dez. 31	» » 179, 387
[1908 *FK*] .	Heidelberg . .	» Dez. 31*, 1909 Jan. 9*, 20* Febr. 19*, April 8*, 21* .	» » 179, 387, 180, 47, 102 213, 391 181, 14
[1909 *FL*] .	Heidelberg . .	1909 Jan. 9*, 20*	» » 180, 47, 102
[1909 *FM*] .	Heidelberg . .	» Jan. 9*, 20*	» » 180, 47, 102
[1909 *FN*] .	Greenwich . .	» Jan. 16*	» » 180, 47
[1909 *FO*] .	Heidelberg . .	» Jan. 18*, 19*	» » 180, 101, 102
[1909 *FP*] .	Heidelberg . .	» Jan. 18*	» » 180, 101,
[1909 *FQ*] .	Heidelberg . .	» Jan. 18*, 26*	» » 180, 101, 103
[1909 *FR*] .	Heidelberg . .	» Jan. 18*, 26*, Febr. 8* .	» » 180, 101, 103, 167
	Kopenhagen .	» Febr. 15	» » 180, 183
[1909 *FS*] .	Heidelberg . .	» Jan. 22*, 26*, Febr. 18* .	» » 180, 103, 213
[1909 *FT*] .	Heidelberg . .	» Jan. 24*, 26*, Febr. 18* .	» » 180, 103, 104, 199
[1909 *FU*] .	Heidelberg . .	» Jan. 26*, Febr. 18* . .	» » 180, 104, 199
[1909 *FV*] .	Heidelberg . .	» Jan. 26*, Febr. 18* . .	» » 180, 104, 199
[1909 *FW*] .	Heidelberg . .	» Jan. 28*	» » 180, 104
[1909 *FX*] .	Heidelberg . .	» Jan. 28*	» » 180, 104
[1909 *FY*] .	Heidelberg . .	» Jan. 28*, Febr. 9* . . .	» » 180, 104, 168
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[1909 *FZ*] .	Heidelberg . .	» Jan. 28*	» » 180, 104
[1909 *GB*] .	Heidelberg . .	» Jan. 28*	» » 180, 104
[1909 *GC*] .	Heidelberg . .	» Jan. 18*, 26*, Febr. 8* .	» » 180, 167, 168
[1909 *GD*] .	Heidelberg . .	» Febr. 18*, 19*, 20* . .	» » 180, 199, 213
[1909 *GE*] .	Heidelberg . .	» Febr. 18*, 19*, 20* . .	» » 180, 199, 213
[1909 *GF*] .	Heidelberg . .	» Febr. 18*	» » 180, 200
[1909 *GG*] .	Heidelberg . .	» Febr. 19*	» » 180, 213
[1909 *GH*] .	Heidelberg . .	» Febr. 20*	» » 180, 214
[1909 *GJ*] .	Heidelberg . .	» Febr. 21*	» » 180, 214
[1909 *GK*] .	Heidelberg . .	» Febr. 21*	» » 180, 214
[1909 *GL*] .	Heidelberg . .	» Febr. 25*	» » 180, 214
[1909 *GM*] .	Heidelberg . .	» März 9*, 14*	» » 180, 295, 311

Nr. und Name	Beobachtungsort	Datum der Beobachtung	Publikation
[1909 *GN*] .	Heidelberg . .	1909 März 14*.	A. N. 180, 311
[1909 *GO*] .	Heidelberg . .	» April 8*, 21*	» » 180, 391, 181, 14
[1909 *GP*] .	Heidelberg . .	» April 9*	» » 180, 391
[1909 *GQ*] .	Heidelberg . .	» April 9*	» » 180, 391
[1909 *GR*] .	Heidelberg . .	» April 11*	» » 180, 392
[1909 *GS*] .	Heidelberg . .	» April 11*	» » 180, 392
[1909 *GT*] .	Heidelberg . .	» April 15*, 19*	» » 180, 392, 181, 13
[1909 *GU*] .	Heidelberg . .	» April 19*	» » 181, 13
[1909 *GV*] .	Heidelberg . .	» April 19*	» » 181, 13
[1909 *GW*] .	Heidelberg . .	» April 22*, Mai 9* . . .	» » 181, 14, 47
[1909 *GX*] .	Heidelberg . .	» April 22*	» » 181, 14
[1909 *GY*] .	Heidelberg . .	» Mai 11*	» » 181, 48
[1909 *GZ*] .	Heidelberg . .	» Mai 13*	» » 181, 77
[1909 *HA*] .	Heidelberg . .	» Juni 17*.	» » 181, 225
[1909 *HB*] .	Greenwich . .	» April 7, 8, 9, 10, 14, 16, 18	» » 182, 11
[1909 *HC*] .	Heidelberg . .	» Juli 23*, 24*	» » 182, 47
[1909 *HD*] .	Heidelberg . .	» Aug. 8*, 19*	» » 182, 47, 95
[1909 *HE*] .	Heidelberg . .	» Aug. 12*	» » 182, 63
[1909 *HF*] .	Heidelberg . .	» Aug. 15*	» » 182, 95
	Kopenhagen .	» Aug. 19, 21, 23, 26, 27, 28, Sept. 1, 2, 5, 7, 8, 9, 10, 11, 12	» » 182, 95, 163, 225
[1909 *HG*] .	Wien . . .	» Aug. 16, 17	» » 182, 95
[1909 *HH*] .	Wien . . .	» Aug. 25	» » 182, 163
[1909 *HJ*] .	Wien . . .	» Sept. 12	» » 182, 195
[1909 *HK*] .	Heidelberg . .	» Sept. 16*.	» » 182, 225
[1909 *HL*] .	Heidelberg . .	» Sept. 16*.	» » 182, 225
[1909 *HM*] .	Heidelberg . .	» Sept. 21*.	» » 182, 251
[1909 *HN*] .	Heidelberg . .	» Sept. 21*.	» » 182, 252

Ausserdem sind A. N. 179, 209, 210 Beobachtungen unbekannter Planeten aus den Jahren 1898—1901 in Arequipa gegeben.

B. Berechnungen.

Durch ein Sternchen (*) sind die Ephemeriden mit ausführlich gerechneten Positionen kenntlich gemacht.

Nr. und Name	Ort der Publikation	Gegenstand
7 Iris . . .	A. N. 181, 261 . .	Säkularstörungen.
8 Flora . . .	M. N. 69, 619 . . .	Ephemeride*.
49 Pales . . .	A. N. 179, 93 . .	Elemente, mit 655 [1908 *BS*] bezeichnet.
58 Concordia .	» » 180, 311 . .	Ephemeride.
110 Lydia . . .	» » 179, 43 . .	Ephemeride.
163 Erigone . .	» » 181, 45 . .	Ephemeride.
313 Chaldaea . .	B. A. 26, 289 . . .	Ephemeride.
318 Magdalena .	A. N. 182, 227 . .	Ephemeride.
328 Gudrun . .	» » 180, 371 . .	Ephemeride.
398 Admete . .	» » 179, 93 . .	Elemente.
	» » 179, 371 . .	Identität mit 645 [1907 *AB*].
402 Chloë . . .	B. A. 26, 305 . . .	Ephemeride.
437 Rhodia . .	A. N. 181, 209 . .	Ephemeride.
444 Gyptis . .	» » 180, 373 . .	Ephemeride.
447 Valentine . .	» » 182, 15 . .	Ephemeride*.
451 Patientia . .	» » 182, 109 . .	Ephemeride.
471 Papagena . .	B. A. 25. 464 . . .	Ephemeride.
472 Roma . . .	A. N. 181, 79 . .	Elemente, Ephemeride*.
511 Davida . .	» » 181, 29 . .	Ephemeride.
	B. A. 26, 288 . . .	Ephemeride.
516 Amherstia .	A. N. 179, 63 . .	Elemente, Ephemeride*.
521 Brixia . . .	» » 180, 61 . .	Elemente, Ephemeride*.
532 Herculina .	» » 180, 389 . .	Ephemeride.
	B. A. 26, 238 . . .	Ephemeride.
539 Pamina . .	» » 26, 306 . . .	Ephemeride.
588 Achilles . .	A. N. 180, 295 . .	Ephemeride.
592 [1906 *TS*] .	B. A. 26, 308 . . .	Ephemeride.
603 [1906 *TJ*] .	A. N. 179, 94 . .	Ephemeride.
605 [1906 *UU*] .	» » 180, 211 . .	Ephemeride.
616 [1906 *VT*] = [1908 *CM*] .	» » 181, 15 . .	Elemente, Ephemeride.
617 Patroclus . .	» » 179, 223. 180, 45	Ephemeride.
624 Hektor . .	» » 180, 327 . .	Ephemeride.
639 [1907 *ZT*] .	» » 179, 93 . .	Elemente.
640 [1907 *ZW*] .	» » 179, 93 . .	Elemente.
641 [1907 *ZX*] .	» » 179, 93 . .	Elemente.
642 [1907 *ZY*] .	» » 179, 93 . .	Elemente.
643 [1907 *ZZ*] .	» » 179, 93 . .	Elemente.

Nr. und Name	Ort der Publikation	Gegenstand
645 [1907 *AG*] .	A. N. 181, 191 . .	Elemente.
	» » 181, 363 . .	Vermutete Identität mit Planet Wolf 1892 Jan. 19 20.
646 [1907 *AC*] .	» » 179, 93 . .	Elemente.
647 [1907 *AD*] .	» » 179, 93 . .	Elemente.
648 [1907 *AE*] .	» » 179, 93 . .	Elemente.
649 [1907 *AF*] .	» » 179, 93 . .	Elemente.
650 [1907 *AM*] .	» » 179, 93 . .	Elemente.
651 [1907 *AN*] .	» » 179, 93 . .	Elemente.
652 Jubilatrix .	» » 179, 303 . .	Elemente, Ephemeride.
653 [1907 *BK*] .	» » 179, 115, 243 .	Identität mit 1893 *D* und 1905 *QQ*.
655 [1907 *BF*] .	» » 180, 261 . .	Elemente, Ephemeride.
656 [1908 *BU*] .	» » 179, 93 . .	Elemente.
657 [1908 *BV*] .	» » 179, 93 . .	Elemente.
658 [1908 *BW*] .	» » 179, 93 . .	Elemente.
659 [1908 *CS*] .	» » 180, 213 . .	Ephemeride.
660 [1908 *CC*] .	» » 181, 91 . .	Elemente, Ephemeride.
674 Rachel . .	» » 179, 241 . .	Kreisbahn, Ephemeride.
	» » 180, 47 . .	Ephemeride.
	» » 181, 291 . .	Elemente.
[1908 *DC*] .	» » 181, 95 . .	Elemente, Ephemeride.

Erläuterungen zu den Ephemeriden und Tafeln des Jahrbuchs für 1912.

Das Jahrbuch gibt die Örter der Wandelsterne in zwei Gattungen von Koordinaten an, in Ekliptikal- und Äquatorial-Koordinaten.

Bei den Ekliptikal-Koordinaten ist im allgemeinen als Anfangspunkt der Sonnenmittelpunkt angenommen und eine feste Lage der Ekliptik und des Äquinoktiums zu Grunde gelegt.

Bei den Äquatorial-Koordinaten ist als Anfangspunkt der Erdmittelpunkt angenommen und die jedesmalige wahre Lage des Äquators und des Äquinoktiums zu Grunde gelegt.

Die Zeitangaben für die im Jahrbuch mitgeteilten Örter sind überall, wo nicht ausdrücklich eine andere Zeit erwähnt wird, in mittlerer Berliner Sonnenzeit ausgedrückt. Die Lage des Berliner Meridians gegen diejenigen Meridiane, auf deren Zeitangaben sich die im Jahrbuch benutzten Sonnen-, Mond- und Planetentafeln begründen, ist nach den neusten Bestimmungen angenommen:

Berlin östlich von Paris um $44^m\ 13^s.86$,
Berlin östlich von Greenwich um $53^m\ 34^s.80$.

Der Anfang des Tages ist der Mittag; die Zählung der Stunden ist durchgängig bis 24 angenommen worden, so daſs die Stunden unter 12 die Nachmittagstunden desselben bürgerlichen Tages, die Stunden über 12, wenn man sie um 12 vermindert, die Vormittagstunden des nächstfolgenden bürgerlichen Tages sind.

Das Jahrbuch enthält auſser den Angaben über die Zeit- und Festrechnung folgende

Hauptabschnitte:

1) Reduktionselemente.

Die auf Seite 1 gegebene Übersicht der Reduktionselemente enthält für die mittleren Mittage von 10 zu 10 Tagen fortschreitend folgende Angaben:

1) Die mittlere Schiefe der Ekliptik, berechnet nach der Angabe von Newcomb (*Tables of the Motion of the Earth,* S. 10), nämlich:

$$\varepsilon = 23^\circ\ 27'\ 8''.26 - 0''.4685\ (t - 1900\ \text{Jan. } 0).$$

2) Die scheinbare Schiefe der Ekliptik, entstanden aus der vorhergehenden unter Hinzufügung der Nutation in Schiefe, nämlich:

$$\Delta\varepsilon = +0''.5519 \cos 2\odot + 0''.0092 \cos(\odot + 281^\circ\ 25') + 9''.210 \cos \Omega - 0''.0895 \cos 2\,\Omega.$$

Das kurzperiodische Glied

$$+0''.0884 \cos 2\,☾$$

ist hier weggelassen, findet sich aber in der letzten Kolumne der Sonnenephemeride von Tag zu Tag aufgeführt.

3) Die Präzession in Länge, berechnet mit der Newcombschen Präzessionskonstante:

Jährliche Präzession in Länge für 1912: $50''.2590$.

4) Die Nutation in Länge, berechnet aus:

$$-1''.2725 \sin 2\odot + 0''.1477 \sin(\odot + 81^\circ 48')$$
$$-17''.2335 \sin \Omega + 0''.2070 \sin 2\Omega.$$

Die kurzperiodischen Glieder

$$-0''.2038 \sin 2☾ + 0''.0676 \sin(☾ - \Gamma')$$

sind hier weggelassen, finden sich aber in der Sonnenephemeride in der vorletzten Kolumne von Tag zu Tag aufgeführt.

Die angegebene Nutation entspricht dem Zeichen nach der Reduktion von mittlerer Länge auf wahre.

5) Die Aberration der Sonne, mit der von der Pariser Konferenz angenommenen Konstanten $20''.47$ berechnet.

6) Die Parallaxe der Sonne, mit der von der Pariser Konferenz angenommenen Konstanten $8''.80$ berechnet.

2) Sonnenephemeride.

Bei der Sonnenephemeride, welche nach den Sonnentafeln von Newcomb (*Astr. Papers* Vol. VI, Part. I) berechnet ist, enthält die linke Seite diejenigen Angaben, welche bei der Beobachtung der Sonne gebraucht werden; ihre Epoche ist der mittlere Berliner Mittag.

Sie enthält aufser dem Datum des Monats und dem Wochentage in sieben neben einander stehenden Kolumnen:

1) Die Zeitgleichung oder den Unterschied zwischen wahrer und mittlerer Zeit.

2) Die scheinbare Rektascension der Sonne.

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die scheinbare Deklination der Sonne.

5) Die ersten Differenzen dieser Zahlenreihe.

6) Die Durchgangsdauer der Sonne in Sternzeit.

7) Den scheinbaren Halbmesser der Sonnenscheibe.

Bei der Rektascension und Deklination ist die Aberration bereits angebracht, dieselben sind daher direkt mit den Beobachtungen vergleichbar.

Gemäfs den Beschlüssen der Pariser Konferenz sind die Nutationsglieder kurzer Periode hier ebenso wie bei den folgenden Planetenephemeriden weggelassen.

Auf der rechten Seite stehen, ebenfalls mit der Epoche des mittleren Berliner Mittags, aufser dem Monats- und Jahrestage in acht Kolumnen neben einander:

1) Die Sternzeit im mittleren Mittage oder die wahre Rektascension der mittleren Sonne.

2) Die Länge der Sonne bezogen auf die mittlere Ekliptik und das mittlere Äquinoktium 1912.0 (annus fictus).

3) Die ersten Differenzen dieser Zahlenreihe.

4) Die Breite der Sonne bezogen auf die mittlere Ekliptik und das mittlere Äquinoktium 1912.0 (annus fictus).

5) und 6) Der Logarithmus des Radius vector der Sonne mit den Differenzen.

7) und 8) Die von der Mondlänge abhängigen Glieder der Nutation in Länge und Schiefe der Ekliptik, nämlich:

$$d\lambda = -0''.2038 \sin 2☾ + 0''.0676 \sin(☾ - \Gamma')$$
$$d\varepsilon = +0''.0884 \cos 2☾.$$

Die Koordinaten dieser Seite sollen bei Bahnberechnungen und dergleichen dienen, sie sind deshalb frei von Aberration, deren Berücksichtigung nur bei ihrer Anwendung zur Vorausberechnung von Finsternissen erforderlich wäre. Für diesen Fall findet man die Korrektion, die man von der Länge abziehen mufs, in der vorletzten Kolumne der Seite 1.

Für die Berechnung des scheinbaren Sonnenhalbmessers ist nach Professor Auwers 15′ 59″.63 angenommen.

Auf Seite 22—41 folgen die rechtwinkeligen Sonnenkoordinaten von 12^h zu 12^h mittlerer Zeit, bezogen auf die mittlere Lage des Äquators und Äquinoktiums für den Anfang des *annus fictus* 1912 (1912 Jan. 1.26).

Diese Koordinaten sind bekanntlich mit entgegengesetzten Zeichen die Koordinaten des Erdmittelpunktes gegen den Sonnenmittelpunkt als Ursprung, bezogen auf eine X-Achse, deren positive Richtung in einer durch den Sonnenmittelpunkt parallel der Ebene des Erdäquators gelegten Ebene durch die Linie des aufsteigenden Knotens der Erdbahn in dieser heliozentrischen Äquatorialebene bestimmt wird, deren positive Y-Achse in der heliozentrischen Äquatorialebene 90° in der Richtung der Erdbewegung von der X-Achse absteht, und deren positive Z-Achse parallel der Erdachse nach der nördlichen Seite gerichtet ist.

Neben den Koordinaten stehen von Tag zu Tag die Reduktionen derselben auf das mittlere Äquinoktium des benachbarten Jahrzehnt-Anfanges 1910.0 in Einheiten der letzten Dezimale; sie dienen zur bequemen Verbindung der Koordinatenangaben aufeinanderfolgender Jahre.

3) Mondephemeride.

Von den die Mondephemeride enthaltenden Seiten 42—81 geben die links liegenden Seiten für mittleren Mittag und Mitternacht:

1) Die wahre Rektascension des Mondes mit den Differenzen.

2) Die wahre Deklination des Mondes mit den Differenzen.

3) Den log. Sinus der Äquatorial-Horizontal-Parallaxe des Mondes mit den Differenzen.

4) Den scheinbaren Halbmesser des Mondes.

Unterhalb dieser Kolumnen sind die Epochen der Mondphasen angegeben.

Auf den rechts liegenden Seiten befinden sich die Angaben, welche die Meridianbeobachtungen des Mondes und ihre Reduktion unterstützen sollen, sowie nach dem Verzeichnis des *Nautical Almanac* die genäherten Örter der sogenannten Mondsterne, deren korrespondierende Beobachtung in Verbindung mit dem Monde besonders die Genauigkeit der Längenbestimmungen aus Mondkulminationen, sowie auch der Parallaxenbestimmungen aus Zenitdistanzen erhöhen soll.

Die abgekürzte Ortsangabe der Mondsterne, welche für die Aufsuchung derselben hinreicht, wird als genügend betrachtet werden können, wenn man bedenkt, dafs der Hauptzweck der Mondsternangaben die Herbeiführung korrespondierender Beobachtungen derselben ist, dafs aber bei solchen die Örter dieser Sterne eliminiert werden, und dafs bei einem Mangel an korrespondierenden Beobachtungen entweder eine sehr sorgfältige und selbständige Diskussion der für die Mondposition zu Grunde zu legenden Sternörter oder deren Beziehung auf die Meridianbeobachtungen benachbarter Fundamentalsterne eintreten mufs.

Es enthalten auf diesen Seiten:

Die 1. Kolumne den Monatstag und die Bezeichnung des oberen oder unteren Berliner Meridiandurchganges des Mondes durch *O* und *U*.

Die 2. Kolumne die Mittl. Berl. Zeit des Meridiandurchganges des Mondes.

Die 3. Kolumne die Rektascension des Mondes zur Zeit der Kulmination.

Die 4. Kolumne die halbe Durchgangsdauer in Sternzeit berechnet mit Hülfe des geozentrischen Halbmessers des Mondes und der stündlichen Bewegung in AR.

Die 5. Kolumne die stündliche Bewegung in Rektascension einschliefslich der Veränderung des Halbmessers, hier für die besonderen Zwecke nicht auf eine Stunde mittlerer Zeit sondern auf das Zeitintervall bezogen, welches zwischen zwei der Epoche benachbarten Durchgängen des Mondes durch zwei um eine Stunde von einander abstehende Meridiane verfliefst.

Die 6. Kolumne die Deklination des Mondes zur Zeit der Kulmination.

Die 7. Kolumne die stündliche Bewegung in Deklination (auf dasselbe Intervall bezogen wie die Bewegung in AR.).

Die 8., 9., 10. Kolumne die Rektascension, Deklination und Gröfse der allgemein angenommenen Mondsterne oder Vergleichsterne des Mondes nach dem *Nautical Almanac*. Bei deren Auswahl ist das Prinzip befolgt, dafs von den jedesmal zu benutzenden 4 Sternen die beiden dem Monde folgenden am folgenden Tage als die beiden vorangehenden beobachtet werden. Es gehören also zu jeder oberen Kulmination (Berlin) die 4 aufeinanderfolgenden Sterne, deren erster auf gleicher Linie mit der Angabe des zugehörigen Monatstages steht.

Dieselben Seiten enthalten endlich unterhalb jener Kolumnen die Epochen des Perigäums und Apogäums des Mondes.

Von den Mondörtern ist nur eine geringe Anzahl für die Finsternisse direkt nach den *Tables de la lune, construites d'après le principe Newtonien de la gravité universelle par P. A. Hansen*, mit Berücksichtigung von *Newcombs Corrections to Hansens Tables of the Moon*, berechnet worden; für die Berechnung der Ephemeride ist dagegen die ausführliche Mondephemeride des *Nautical Almanac* benutzt worden, die der Redaktion infolge Übereinkommens mit der *Nautical Almanac Office* in den Aushängebogen zur Verfügung stand. Doch ist zu beachten, dafs für die Berechnung des Mondhalbmessers der von J. Peters ermittelte mittlere Wert 15′ 32″.59 angenommen ist.

4) Ephemeride für den Mondkrater Mösting A.

Die Ephemeride des Mondkraters Mösting A, Seite 82—86, dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Meridianbeobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschlufs an Mösting A.

Sie gilt für die mittlere Mitternacht in Berlin und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektascension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater vom Erdmittelpunkt aus gesehen mit ihren Differenzen, sowie den Logarithmus des Sinus der Äquatorialhorizontal-Parallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Meridianbeobachtungen des Kraters interpoliere man unter strenger Berücksichtigung der zweiten Differenzen $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit des Durchgangs des Kraters durch den Meridian. Dann befreie man die beobachtete Deklination des Kraters von der Höhenparallaxe, indem man diese in der bekannten Weise mit dem Argument der wahren Kraterdeklination (nicht Monddeklination), unter Benutzung von p_k, berechnet. Bringt man alsdann

$\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ an die Beobachtung an, so hat man die AR. und Dekl. des Mondes, wie sie vom Erdmittelpunkt aus beobachtet wären, für die Beobachtungszeit, d. h. für die Kulmination des Kraters (nicht des Mondes).

Für Beobachtungen aufserhalb des Meridians interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Zeit der Beobachtung. Man findet dann die gesehene, mit Parallaxe behaftete Differenz $\alpha'_☾ - \alpha'_k$ offenbar, indem man die mit $p_☾$ und dem Mondort berechnete Parallaxe $\alpha'_☾ - \alpha_☾$ des Mondes in AR. zu $\alpha_☾ - \alpha_k$ addiert und dann die mit p_k und dem Kraterort berechnete Parallaxe $\alpha'_k - \alpha_k$ des Kraters in AR. subtrahiert. Es ist nämlich:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$

und ebenso

$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen scheinbaren Abstände zwischen der Mondmitte und Mösting A mit mikrometrischen Messungen zwischen Mösting A und einem zweiten Krater, so erhält man die scheinbare Lage des letzteren gegen die Mondmitte und kann hieraus mit Hülfe von $\alpha'_☾$ und $\delta'_☾$, mit der auf Seite 87 angegebenen Lage des Mondäquators und der mit den Angaben auf Seite 457 berechneten physischen Mondlibration die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die scheinbare AR. und Dekl. des an Mösting A angeschlossenen Kraters, so hat man:

$$\begin{aligned} s \sin \pi_m &= (\alpha' - \alpha'_☾) \cos \tfrac{1}{2} (\delta' + \delta'_☾) \\ s \cos \pi_m &= (\delta' - \delta'_☾) \\ \pi &= \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_☾) \sin \tfrac{1}{2} (\delta' + \delta'_☾) \\ \sin (K + s) &= \sin s \operatorname{cosec} h'. \end{aligned}$$

h' ist der scheinbare Radiusvector des Kraters, der aus h, dem vom Erdmittelpunkt aus gesehenen Radiusvector, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers eingesetzt werden.

$$\begin{aligned} \sin d &= -\sin \delta'_☾ \cos K + \cos \delta'_☾ \sin K \cos \pi \\ \cos d \cos (a - \alpha'_☾) &= -\cos \delta'_☾ \cos K - \sin \delta'_☾ \sin K \cos \pi \\ \cos d \sin (a - \alpha'_☾) &= \sin K \sin \pi \\ \sin \beta &= \sin d \cos i - \cos d \sin i \sin (a - ☊') \\ \cos \beta \sin \lambda' &= \sin d \sin i + \cos d \cos i \sin (a - ☊') \\ \cos \beta \cos \lambda' &= \cos d \cos (a - ☊'). \end{aligned}$$

Die Gröfsen i und Ω' entnehme man der Seite 87.

$$\lambda = \lambda' - 180^\circ - L - (\varDelta - \mho).$$

L, die mittlere Länge des Mondes, findet sich auf Seite 88, wie $\varDelta - \mho$ auf Seite 87.

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einflufs der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +12'' \sin M - 59'' \sin M' - 18'' \sin 2\omega$$
$$+ \operatorname{tg}\beta[-108'' \cos(\omega + \lambda) + 37'' \cos(\omega - \lambda) - 11'' \cos(M + \omega - \lambda)]$$
$$d\beta = +108'' \sin(\omega + \lambda) + 37'' \sin(\omega - \lambda) - 11'' \sin(M + \omega - \lambda).$$

Die Grössen M, M', ω sind der Seite 457 zu entnehmen.

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta.$$

Der Berechnung der Ephemeride des Kraters Mösting A liegen folgende von F. Hayn ermittelte Konstanten (Selenographische Koordinaten III, Seite 49) zugrunde:

$$\lambda_0 = -5^\circ\, 10'\, 13'', \qquad \beta_0 = -3^\circ\, 10'\, 58''$$
$$h = 15'\, 34''.71 \text{ entsprechend der Parallaxe } 57'\, 2''.27.$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -12'' \sin M + 59'' \sin M' + 18'' \sin 2\omega$$
$$d\beta = -145'' \sin \omega + 11'' \sin(M + \omega)$$

so dafs die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

5) Lage des Mondäquators. Mondbewegung.

Die beiden Tafeln auf Seite 87 und 88 dienen neben dem oben angegebenen Zweck zur Berechnung der optischen Libration des Mondes (in Verbindung mit der Tafel auf Seite 458 und 459) und zur Ermittelung des Winkels C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Deklinationskreise bildet.

Die Formeln für die Berechnung der optischen Libration sind auf Seite 459 vollständig aufgeführt. Der Winkel C ergibt sich aus folgender Formel:

$$\sin C = -\sin i\,\frac{\cos(l + \Delta - \mho)}{\cos\delta} = -\sin i\,\frac{\cos(\alpha - \Omega')}{\cos b'},$$

worin

i . . . . die Neigung des Mondäquators gegen den Erdäquator,
Δ . . . das Stück des Mondäquators vom aufsteigenden Knoten im Erdäquator bis zum aufsteigenden Knoten in der Ekliptik,
Ω' . . . den aufsteigenden Knoten des Mondäquators im Erdäquator,
$\mho$ . . . den aufsteigenden Knoten des Mondäquators in der Ekliptik,
α, δ . . Rektascension und Deklination des Mittelpunktes der Mondscheibe, gesehen vom Beobachtungsort aus,
l', b' . . die optische Libration in selenographischer Länge und Breite,
l_0 . . . die mittlere Länge des Mondes

bezeichnen und $l = l' + l_0$ gesetzt wird.

C wird vom nördlichen Teil des Deklinationskreises nach Osten positiv gerechnet.

Bei der Berechnung von i, Δ, Ω' ist die Neigung des Mondäquators gegen die Ekliptik nach F. Hayn (Selenographische Koordinaten III, Seite 49) zu $J = 1° 32' 6''$ angenommen worden. Die Angaben sind frei von physischer Libration.

Die in der ersten Kolumne der Tafel auf Seite 88 aufgeführte Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik dient auch zur Berechnung der Nutationsausdrücke.

6) Auf- und Untergang von Sonne und Mond für Berlin.

Auf Seite 89—93 sind die Zeiten der Auf- und Untergänge von Sonne und Mond für Berlin in mittlerer Berliner Zeit aufgeführt, welche als Grundlage für die Kalenderrechnungen benachbarter Orte häufig Verwendung finden.

7) Planetenephemeriden.

Von Seite 94—143 folgen die wahren geozentrischen Örter der Hauptplaneten. Dieselben sind für Merkur, Venus und Mars von Tag zu Tag, für Jupiter, Saturn, Uranus und Neptun von 2 zu 2 Tagen gegeben. Überall sind den mit der Beobachtung zu vergleichenden Angaben die ersten Differenzen beigefügt, die für eine genaue Interpolation zweckmäfsiger erscheinen als die Angabe der Bewegung in 1^h Länge.

Sämtliche geozentrische Koordinaten beziehen sich auf die jedesmalige wahre Lage des Äquators und des Äquinoktiums, sind aber frei von der *Aberratio fixarum*, so dafs man bei ihrer Vergleichung mit den Beobachtungen bekanntlich von den Beobachtungszeiten die jedesmalige Aberrations- oder Lichtzeit abziehen mufs, dann aber mit den so kor-

rigierten Epochen im Jahrbuche diejenigen wahren Richtungen findet, welche mit den beobachteten scheinbaren, nur von Parallaxe befreiten, direkt vergleichbar sind. Dieses Verfahren ist bis zu den Grenzen unseres Planetensystems ausreichend genau, da der Maximalfehler desselben nahezu 0″.001 Δ beträgt, also selbst bei Neptun 0″.03 nicht übersteigt.

Die »Log. Δ« überschriebene Kolumne gibt den für Berechnung der Lichtzeit und der Parallaxe erforderlichen Wert des Log. der Entfernung der Planeten vom Erdmittelpunkte in der bekannten Einheit ausgedrückt.

Die vorletzte Kolumne jeder Seite enthält unter der Bezeichnung »Östlicher Stundenwinkel« des Planeten einen genäherten Wert für die mittlere Zeit seiner oberen Kulmination. Die letzte Kolumne gibt den halben Tagbogen für die im Berliner Mittag stattfindende Deklination. Aus beiden Reihen von Werten wird man alles Erforderliche für Auf- und Untergang leicht ableiten können.

Als Grundlage für die Berechnung haben neben den Newcombschen Sonnentafeln gedient:

für Merkur, Venus und Mars die Newcombschen Tafeln in *Astronomical Papers*, Vol. VI, Part 2, 3 und 4,

für Jupiter und Saturn die Tafeln von G. W. Hill in *Astronomical Papers*, Vol. VII, Part 1 und 2,

für Uranus und Neptun die Newcombschen Tafeln in *Astronomical Papers*, Vol. VII, Part 3 und 4.

Die Reduktionen auf den wahren Ort sind durchweg mit den im Jahrbuch allgemein angewandten Präzessions- und Nutationsausdrücken berechnet, über welche unten näheres folgt. Die von der Mondlänge abhängenden Nutationsglieder sind durchweg fortgelassen.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3″.34
»	Venus	»	. . . . .	8 .78
»	Mars	»	. . . . .	4 .68
»	Jupiter	»	(Äquatorial)	99 .8
		»	(Polar) . .	92 .6
»	Saturn	»	(Äquatorial)	81 .4
		»	(Polar) . .	73 .4
»	Uranus	»	. . . . . .	34 .7
»	Neptun	»	. . . . . .	45

8) Heliozentrische Örter.

Auf die geozentrischen Ephemeriden der Hauptplaneten folgen Seite 144—148 die heliozentrischen Koordinaten derselben, und zwar der Log. des Radius vector, die Länge in der Bahn und die Reduktion auf die Ekliptik, die Breite und bei den Planeten Jupiter, Saturn, Uranus und Neptun noch der Winkel B_0, welchen der Radius vector mit derjenigen Bahnebene macht, für welche die bei jedem Planeten unter den Kolumnen hinzugefügten Angaben über ☊ und i gelten. (Siehe die ausführlichere Erläuterung im Jahrbuch für 1880 und 1881.)

Da diese heliozentrischen Koordinaten hauptsächlich zur Berechnung der speziellen Störungen dienen sollen, so ist die Genauigkeit und Ausführlichkeit ihrer Angaben dem ihrem Zweck entsprechenden Maſse angepaſst worden.

Hinzugefügt sind endlich auſser ☊ und i noch die Angaben betreffend die Masse der Planeten, und zwar:

für Merkur, Venus und (Erde + Mond) nach Newcomb (*Tables of the Sun,* Seite 12),
für Mars nach A. Hall,
für Jupiter nach Newcomb,
für Saturn nach Bessel,
für Uranus nach Hill (*Tables of Saturn,* Seite 167),
für Neptun nach Newcomb (*Tables of Uranus*, Seite 293).

9) Mittlere Örter von 925 Fixsternen.

Die mittleren Sternörter für 1912.0 auf Seite 149 bis 175 sind aus dem Neuen Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung des *Königlichen Astronomischen Recheninstituts* Nr. 33) mit den daselbst angegebenen Hülfsgröſsen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 nördlichen und südlichen Polsterne sind durch mechanische Quadratur berechnet.

10) Scheinbare Örter von 573 Fixsternen.

Die scheinbaren Örter der Sterne (Seite 176—375) sind für die 18 weniger als 10° von den Polen entfernten Sterne von Tag zu Tag, für die übrigen 555 Sterne von 10 zu 10 Tagen angegeben und beziehen sich auf die Epoche derjenigen oberen Kulmination im Berliner Meridian, welche an dem nebenstehenden wahren Sonnentage stattfindet. Der Übergang einer

Kulmination auf den vorangehenden wahren Sonnentag ist dadurch bezeichnet, dafs das Datum des Tages, an welchem zwei obere Kulminationen stattfinden, vor den Rektascensionen aufgeführt ist.

Am Fufs der Ephemeride für jeden Stern ist sein mittlerer Ort für den Anfang des Jahres wieder angegeben, aufser bei den Polsternen, für welche an dieser Stelle der Betrag der täglichen Aberration in Rektascension für die Kulminationszeit steht. Hierbei liegt der auch auf Seite 376 angegebene Zahlenwert $0^s.0213$ zu Grunde.

Bei den von 10 zu 10 Tagen fortschreitenden Ephemeriden sind die scheinbaren Örter auf $0^s.01$ in Rektascension und $0''.1$ in Deklination angesetzt. Die kurzperiodischen Mondglieder der Nutation sind bei der Berechnung weggelassen worden und müssen in den Fällen, wo ihre Mitnahme wünschenswert erscheint, nach den Formeln auf Seite 376 und mit Hülfe der Tafel auf Seite 388 u. 389 besonders berechnet werden.

Bei den von Tag zu Tag berechneten scheinbaren Örtern der 18 den Polen nächsten Sterne sind, im Einklange mit der Bedeutung der Hundertteile der Zeitsekunde für die Rektascensionen dieser Sterne, die Deklinationen auf Hundertteile der Bogensekunde angegeben; bei diesen Sternen sind auch die kurzperiodischen Mondglieder der Nutation angebracht, mit Ausnahme von f'.

Die der Berechnung der scheinbaren Örter zu Grunde gelegten Konstanten der Präzession, Nutation und Aberration entsprechen den Beschlüssen der Pariser Konferenz und sind aus der Formelübersicht Seite 376 zu ersehen. Man sehe hierüber auch den nächsten Abschnitt ein.

Der Betrag der jährlichen Parallaxe ist bei folgenden drei Sternen, bei denen diese ansehnlich und ihrem Werte nach hinreichend verbürgt ist, nämlich bei

α Canis maj.	mit	der	Parallaxe	$0''.38$
α Lyrae	»	»	»	$0\ .18$
61 Cygni	»	»	»	$0\ .3$

bereits berücksichtigt. Der gegen die frühere Annahme geänderte Wert der Parallaxe von 61 Cygni beruht auf den »Untersuchungen über das Doppelsternsystem 61 Cygni von Östen Bergstrand.«

11) Reduktionstafeln.

Auf die scheinbaren Örter der Sterne folgt Seite 376 eine Zusammenstellung der Formeln, nach welchen die Reduktionskonstanten der darauf folgenden Tafeln berechnet sind. Hierbei sind die Präzessionsgröfsen nach Newcomb, die Nutationskonstante $9''.21$ und die Aberrationskonstante $20''.47$ gemäfs den Beschlüssen der Pariser Konferenz zu Grunde gelegt.

Für den Gebrauch der Reduktionstafel für die Sterntage 1912 (Seite 377) ist erläuternd hinzuzufügen, daſs derjenige absolute Moment, in welchem die mittlere Sonnenlänge 280° oder die Rektascension der mittleren Sonne = $18^h\ 40^m$ ist, als die Anfangsepoche des astronomischen annus fictus und als der bequeme Ausgangspunkt der Zählung aller scheinbaren Bewegungen der Sterne, die von der Sonnenlänge abhängig sind, angenommen ist. An diesen Moment reihen sich die Epochen der Tafel (Seite 377) nach Sterntagen. Die Sonne erreicht jene Stellung um $0^h\ 50^m.2$ Sternzeit Berlin 1912 Jan. 1. Die Angaben der ersten Kolumne »Datum in mittlerer Zeit« drücken, von dieser Anfangsepoche beginnend, in Hundertteilen des mittleren Tages von Berlin die Zeitpunkte aus, welche der Folge der Sternzeiten entsprechen, und für welche die Zahlen der Tafel gelten. Man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch mittleres Datum, Sternzeit und Längendifferenz mit Berlin, leicht und sicher übergehen können.

Diese Tafel dient für Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge, ohne Berücksichtigung der von der Mondlänge abhängigen Nutationsglieder. Wegen ihrer logarithmischen Form ist sie zur Interpolation nicht geeignet. Man wird deshalb mit Vorteil die Interpolation erst nach der Summierung der einzelnen Korrektionen, welche unmittelbar für die Epochen der Tafeln berechnet werden können, eintreten lassen.

Die zweite Tafel (Seite 378—387) gibt nach den Anweisungen der Seite 376 für die mittlere Mitternacht Berlin die bekannten Konstanten zur Reduktion auf den scheinbaren Ort und zwar unter Weglassung der von der Mondlänge abhängigen Nutationsglieder, da diese Tafel überwiegend zu Reduktionen bei Vergleichungen von Beobachtungen mit Ephemeriden dienen soll. In der letzten Kolumne ist jedoch, um die Mondglieder in derselben Form hinzufügen zu können, unter dem Zeichen ☾ das Argument »mittlere Mondlänge« für die Tafeln der Seiten 388 und 389 angeführt, wobei die Peripherie in 1000 Teile geteilt gedacht ist.

Die Tafeln für die schnell veränderlichen Mondglieder der Nutation (Seite 388 und 389) enthalten die Hülfsmittel für die Reduktionen auf den scheinbaren Ort in derselben Form wie die vorangehenden beiden Tafeln.

Denselben liegen folgende Formeln zu Grunde:

$$A' = -0.00405 \sin 2☾ + 0.00134 \sin(☾ - 122° 59')$$

$$B' = -0.0884 \cos 2☾$$

und

$$f' = -0''.1865 \sin 2☾ + 0''.0618 \sin(☾ - 122° 59')$$

$$g' \sin G' = -0.0884 \cos 2☾$$

$$g' \cos G' = -0.0811 \sin 2☾ + 0.0269 \sin(☾ - 122° 59').$$

Die hauptsächlichste Vernachlässigung dabei liegt in der für das ganze Jahr konstanten Annahme des für 1912.5 berechneten Perigäums der Mondbahn: $\Gamma' = 122° 59'$.

In der Tafel Seite 390—399 sind die kurzperiodischen Mondglieder mit den Reduktionskonstanten vereinigt worden. Um den Gebrauch dieser Tafel zu erleichtern, sind jedesmal an derjenigen Stelle, wo die Werte einer der beiden Konstanten *C*, *D* durch Null gehen, neben den logarithmischen Angaben die Numeri der betreffenden Konstante beigesetzt. Im übrigen gilt hinsichtlich der Einrichtung der Tafel dasselbe, was oben über den Gebrauch der Tafel Seite 377 gesagt wurde.

Die darauf folgende Tafel Seite 400 und 401, welche als notwendige Zugabe zu den Koordinatenangaben für den benachbarten Jahrzehntanfang dient, bedarf keiner besonderen Erläuterung.

12) Sonnen- und Mondfinsternisse.

Die Sonnenfinsternisse sind in der Form berechnet worden, welche Hansen (Theorie der Sonnenfinsternisse und verwandten Erscheinungen. Abhandlungen der K. Sächsischen Gesellschaft der Wissenschaften IV) der Behandlung dieses Problems gegeben hat.

Die Bezeichnungen und Einführungen von Hansen sind auch im Jahrbuch bei der tabellarischen Aufstellung der Rechnungsresultate durchgängig beibehalten worden, so dafs es genügen wird, zu ihrer Erläuterung auf die erwähnte Abhandlung zu verweisen (siehe besonders die übersichtliche Anführung der einzelnen Formeln von Seite 434 an).

Es wird hier nur erforderlich sein, in aller Kürze anzugeben, auf welche Weise man mit Hülfe der auf Seite 403 und 408 gegebenen Hansenschen Elemente der Sonnenfinsternisse Zeit und Umstände der Finsternis für jeden Ort innerhalb der Grenzkurven berechnen kann.

Der Ort sei gegeben durch seine (nach Osten gezählte) Länge von Berlin . . . λ, oder von Greenwich . . . $\lambda_0 = \lambda + 13^\circ\ 23'.7$ und durch seine geographische Breite φ.

Man bilde zuerst $\tang \varphi_1 = (1 - c) \tang \varphi$, wo c die Abplattung der Erde ist, also $\log(1 - c) = 9.99855$ angenommen werden kann, sodann:

$$\xi = \cos \varphi_1$$
$$\eta = (1 - c) \sin \varphi_1.$$

Hierauf mufs man für die Epoche des fraglichen Phänomens, sei es nun erste und letzte äufsere oder innere Berührung oder gröfste Phase, einen Näherungswert der wahren Ortszeit annehmen.

Hierzu kann man die anderweitigen Angaben des Jahrbuchs, insbesondere die eventuelle Angabe der Epochen des Eintritts der gröfsten Phase auf der Zentrallinie zu Rate ziehen. Ein für die erste Annäherung hinreichender und bequemer Näherungswert der Ortszeit ist $\mu + \lambda$, wo μ die wahre Berliner Zeit der geozentrischen gröfsten Phase ist. (Siehe Elemente der Finsternis.)

Sei der Näherungswert der Ortszeit t_0, so bilde man mit Hülfe der in dem Elementenverzeichnis des Jahrbuchs gegebenen Werte von

γ, μ, n, u', f, δ', g, G, k, K, welche man beiläufig mit dem Argumente der wahren Berliner Zeit $\tau = t_0 - \lambda$ entnimmt, folgende Ausdrücke, welche als gemeinsame Grundlage der Annäherung für die Berechnung aller Phasen dienen können:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$
$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$
$$m' \sin M' = -\varkappa \xi \sin g \cos (G + t_0)$$
$$m' \cos M' = n - \varkappa \xi \sin k \sin (K + t_0)$$
$$u_0 = u' - (\eta \sin \delta' + \xi \cos \delta' \cos t_0) \operatorname{tang} f$$

wo
$$\varkappa = \frac{15 \cdot 3600}{206265} \qquad \lg \varkappa = 9.41797.$$

Bei der Entnahme von u' und f hat man für innere Berührungen u'_i und f_i, für äufsere Berührungen u'_a und f_a zu wählen.

Hierauf berechnet man:

$$\sin \chi' = \frac{m}{u_0} \sin (M + M')$$
$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u_0}{m'} \cos \chi'$$

wobei man, da zu $\sin \chi'$ ein negativer und ein positiver Wert von $\cos \chi'$ sich ergibt, zwei Werte von t (zur ersten oder letzten Berührung gehörig) findet.

Mit jedem dieser beiden Werte von t rechnet man nun in zweiter Annäherung, wobei die Elemente γ, μ, n, u', f, δ', g, G, k, K mit den wahren Berliner Zeiten $t - \lambda$ aus dem Elementenverzeichnis zu entnehmen sind:

$$m \sin M = \gamma - \eta \cos g + \xi \sin g \sin (G + t_0)$$
$$m \cos M = (t_0 - \lambda - \mu) \frac{n}{15} - \eta \cos k + \xi \sin k \cos (K + t_0)$$
$$m' \sin M' = -\varkappa' \xi \sin g \cos \left[G + \frac{1}{2} (t_0 + t)\right]$$
$$m' \cos M' = n - \varkappa' \xi \sin k \sin \left[K + \frac{1}{2}\; t_0 + t)\right]$$
$$u = u_0 + \varkappa' \xi \cos \delta' \operatorname{tang} f \sin \frac{1}{2} (t_0 + t) \frac{(t - t_0)}{15}$$

wo
$$\varkappa' = 30 \cdot \frac{\sin \frac{1}{2} (t - t_0)}{t - t_0};$$

$(t - t_0)$ ist hierbei stets in Graden auszudrücken.

Mit den so gefundenen m, m', M, M' und u bildet man dann wieder

$$\sin \chi' = \frac{m}{u} \sin (M + M')$$
$$t = t_0 - 15 \frac{m}{m'} \cos (M + M') + 15 \frac{u}{m'} \cos \chi'.$$

Von den beiden Lösungen für t benutzt man bei der zweiten und den folgenden Näherungen für den Eintritt natürlich nur die zum Eintritt, ebenso bei den Näherungen für den Austritt die zum Austritt gehörige.

Die in zweiter oder dritter Näherung gefundenen Werte t sind meistens schon genau genug die wahren Ortszeiten des gesuchten Eintritts oder Austritts, und die Positionswinkel der Eintritts- und Austrittspunkte (am Sonnenmittelpunkt von der Richtung zum Nordpol nach der Seite der wachsenden Rektascensionen oder nach Osten hin gezählt) sind mit den beiden Werten von χ', die der Sinus ergibt:

$$\vartheta = N' + M' - \chi',$$

wo N' aus dem Elementenverzeichnis zu entnehmen ist.

Um die Zeit der gröfsten Phase zu berechnen, kann man zunächst die Werte t_0, m, m', M, M' aus der obigen ersten Annäherung benutzen und damit bilden:

$$t_1 = t_0 - 15 \frac{m}{m'} \cos (M + M').$$

Mit dem so gefundenen Werte t_1 bildet man für die Epoche $t_1 - \lambda$ wieder die Werte der Elemente und berechnet damit in zweiter Annäherung die Werte m, m', M, M', indem man in den Gleichungen der ersten Annäherung t_0 durchgängig mit t_1 vertauscht. Man hat dann den genaueren Wert der Ortszeit der gröfsten Phase:

$$t = t_1 - 15 \frac{m}{m'} \cos (M + M')$$

und zur Kontrolle für diese Zeit $M + M' = 90°$ oder $= 270°$, je nachdem der Mondmittelpunkt nördlich oder südlich vom Sonnenmittelpunkt vorbeigeht.

Zur Bestimmung der Gröfse der Verfinsterung hat man zugleich:

$$u = m,$$

welcher Wert bei zentraler Verfinsterung $= 0$ wird.

Die Gröfse in Teilen des Durchmessers i findet man mit einer für diese rohe Angabe genügenden Näherung:

$$i = \frac{u'_a - u}{u'_a - u'_i} \; . \; . \; . \; .$$

Zu den Angaben über die Mondfinsternisse (Seite 402 und 407) sei bemerkt, dafs als Vergröfserungsfaktor des Erdschattens $\frac{1}{50}$ angenommen ist.

13) Sternbedeckungen durch den Mond.

Bei den Sternbedeckungen findet man zunächst (Seite 410 und 411) ein Verzeichnis derjenigen helleren Sterne (bis zur 5.5. Gröfse), welche im Laufe des Jahres 1912 für irgend einen Ort der Erdoberfläche vom Monde bedeckt werden können. Die Gröfsenangaben der nicht in dem Verzeichnis der mittleren Sternörter des Jahrbuchs enthaltenen Sterne beruhen zum gröfsten Teil auf den Schätzungen von Argelander und Heifs, in einzelnen wenigen Fällen sind aufserdem für diese Angaben die Schätzungen Goulds benutzt; die mittleren Örter sind nach den Angaben verschiedener Kataloge mit Berücksichtigung der Eigenbewegung auf 1912.0 reduziert.

Hierauf folgen in den zweispaltigen Seiten 412—418 die Hülfsmittel zur Berechnung der einzelnen Bedeckungen:

in der 1. Kolumne die Nr. des Sterns, welcher bedeckt wird, nach dem voranstehenden Verzeichnisse;

in der 2. Kolumne die Zeit der geozentrischen Konjunktion in AR. von Stern und Mondmittelpunkt in Monatstagen, Stunden und Minuten;

in der 3., 4. und 5. Kolumne die Werte folgender Ausdrücke:

$$q = \frac{\delta - D}{\pi} \qquad p' = \frac{\Delta\alpha \,.\, \cos\delta}{\pi} \qquad q' = \frac{\Delta\delta}{\pi}$$

p' und q' in Einheiten der 4. Dezimale.

In diesen Ausdrücken bedeutet:

δ die geozentrische Deklination des Mondes für die geozentrische Konjunktionszeit T.

D die Deklination des Sterns.

π die Äquatorial-Horizontal-Parallaxe des Mondes (bezw. vermindert um die Parallaxe des Planeten bei Planetenbedeckungen) für die geozentrische Konjunktionszeit T.

$\Delta\alpha$ und $\Delta\delta$ die Veränderung der geozentrischen Rektascension und Deklination des Mondes (bezw. vermindert um die Veränderung des Planetenortes bei den Planetenbedeckungen), für eine Stunde mittlerer Zeit, gültig für die Konjunktionszeit T.

Nennt man ferner die geozentr. AR. des Mondes zur Zeit $T \ldots \alpha$, die AR. des Sterns $\ldots A$, den geozentr. scheinbaren Halbmesser des Mondes $\ldots r$, die Längendifferenz des Beobachtungsortes gegen Berlin $\ldots d$ (östlich positiv), die der mittleren Zeit $T + d$ entsprechende Sternzeit des Ortes $\ldots \mu$, seine geozentrische Breite $\ldots \varphi'$, seinen geozentrischen Radius vector in Teilen des Radius des Äquators $\ldots \varrho$; setzt man endlich (nach J. Peters *Astron. Nachr.* 3297)

$$\frac{r}{\pi} = k = 0.2725, \qquad \log k = 9.4354$$

$$\text{und } \log(15 \,.\, 3609.9 \sin 1'') = \log\lambda = 9.41916,$$

so wird die Aufgabe der Vorausberechnung der Ortszeit etc. für die betreffende Bedeckung in Verbindung mit den obigen in den Tafeln gegebenen Werten gelöst durch die Bildung folgender Ausdrücke und die Ausführung folgender Rechnungen (nach Bessels Näherungsformeln im Jahrbuch für 1831):

$$p = \frac{(\alpha - A)\cos\delta}{\pi} \quad (= 0 \text{ für das Zeitmoment } T)$$

$$u = \varrho\cos\varphi'\sin(\mu - A)$$

$$v = \varrho\sin\varphi'\cos D - \varrho\cos\varphi'\cos(\mu - A)\sin D$$

$$u' = \lambda\varrho \cos\varphi' \cos(\mu - A) = \left(\frac{du}{dt}\right)$$

$$v' = \lambda\varrho \cos\varphi' \sin(\mu - A) \sin D = \left(\frac{dv}{dt}\right)$$

$$m \sin M = p - u \qquad n \sin N = p' - u'$$

$$m \cos M = q - v \qquad n \cos N = q' - v'$$

(m und n stets positiv)

$$\tau = -\frac{m}{n}\cos(M - N).$$

Die Momente des Eintritts und des Austritts T_1 und T_2 des Sterns werden dann gefunden, wenn noch $\cos\psi = \frac{m \sin(M - N)}{k}$ (wo ψ immer kleiner als 180°) berechnet ist:

$$T_1 = T + d + \tau - \frac{k}{n}\sin\psi \qquad T_2 = T + d + \tau + \frac{k}{n}\sin\psi.$$

Die Örter des Eintritts und Austritts an der Mondscheibe in dem auf Seite [16] erläuterten Positionswinkel-Ausdruck sind:

$$Q_1 = N - 90^\circ + \psi \qquad Q_2 = N - 90^\circ - \psi.$$

Die so gefundenen Resultate werden indes von der Wahrheit sehr entfernt sein können, wenn die Korrektion τ, welche zu der Ortszeit der geozentrischen Konjunktion hinzugefügt werden mufs, um die Ortszeit des auf den Beobachtungsort bezüglichen kleinsten Abstandes des Sterns vom Mondmittelpunkt zu finden, sehr beträchtlich ist; mit anderen Worten, wenn an dem betreffenden Ort zur Zeit $T + d$ der Stundenwinkel des Mondes grofs ist. In diesem Falle nämlich ist hauptsächlich die Berechnung der der Zeit folgenden Veränderungen von u und v durch die ersten Differentialquotienten u' und v' bei der starken Änderung des Winkels $(\mu - A)$ nicht mehr genügend, sondern man mufs jetzt die zweite Näherung ausführen, indem man für die Ortszeit $T + d + \tau$ oder die Berliner Zeit $T + \tau = T_0$ berechnet:

$$p_0 = \tau p' \qquad q_0 = q + \tau q' \qquad \mu_0 = \mu + \tau + \varepsilon \qquad t = \mu_0 - A$$

(wo ε die Reduktion des mittleren Zeitintervalles τ auf Sternzeit bedeutet)

$$u = \varrho \cos\varphi' \sin t$$

$$v = \varrho \sin\varphi' \cos D - \varrho \cos\varphi' \sin D \cos t$$

$$u' = \lambda\varrho \cos\varphi' \cos t$$

$$v' = \lambda\varrho \cos\varphi' \sin D \sin t.$$

Berechnet man mit diesen Werten

$$\Delta\tau = -\frac{m}{n}\cos(M - N),$$

so wird diese Näherung schon ziemlich ausreichend sein, um die Zeiten und Örter des Eintritts und Austritts zu finden, wie oben:

$$\cos\psi = \frac{m\sin(M-N)}{k}$$

$$T_1 = T + d + \tau + \Delta\tau - \frac{k}{n}\sin\psi \text{ u. s. w.}$$

Bei der Berechnung der ersten Näherung, welche τ ergibt, wird es aber nicht nötig sein, nach den ausführlichen Formeln bis

$$\tau = -\frac{m}{n}\cos(M-N)$$

zu rechnen, sondern man wird eine wesentliche Abkürzung und eine hinreichende Konvergenz der Näherung erreichen, wenn man setzt:

$$\tau = \frac{u}{p' - u'} \cdot \cdot \cdot \cdot \cdot$$

Wenn man hier noch statt des jedesmaligen, in den Elementen der Sternbedeckungen angegebenen p' den Durchschnittswert 0.5646 annimmt, läfst sich der Ausdruck

$$\tau = \frac{\varrho\cos\varphi'\sin(\mu - A)}{0.5646 - \lambda\varrho\cos\varphi'\cos(\mu - A)}$$

für eine bestimmte Polhöhe φ' sehr leicht mit dem Argumente des Stundenwinkels $(\mu - A)$ in eine Hülfstafel bringen, aus der man ohne Mühe den zur ersten Näherung hinreichenden Wert von τ bei westlichem Stundenwinkel positiv, bei östlichem negativ entnimmt.

Um für jeden Ort die erste Korrektion τ in Minuten ausgedrückt zu finden, kann die Tafel Seite [20] mit dem Horizontalargument »φ'« und dem Vertikalargument »Stundenwinkel« dienen. Zur genäherten Bildung des letzteren Argumentes werden die Kolumnen der Mondephemeride, welche »Mond im Meridian« überschrieben sind, von Nutzen sein können.

Für Orte, die nicht zu weit von Berlin entfernt sind, wird man aus dem für Berlin gegebenen Verzeichnis häufig schon ersehen können, ob eine Sternbedeckung stattfindet oder nicht; für näher gelegene Orte dürfte es in diesem Falle schon genügen, wenn man an die für Berlin gegebenen Zeiten des Ein- und Austritts nur die Längendifferenz anbringt. Wenn nämlich die Sehne vom Punkte des Eintritts zu dem des Austritts dem Mondmittelpunkt nahe liegt, so müfste der Unterschied der Parallaxe für Berlin und den anderen Ort schon nahe den Betrag des Mondhalbmessers erreichen, wenn dort die Sternbedeckung nicht sichtbar sein sollte; für nahe liegende Orte sind die Wirkungen kleiner Unterschiede der Parallaxen gerade in diesem Falle sehr gering.

Um allgemein für irgend einen Ort, dessen östliche Länge d und dessen geozentrische Breite φ' näherungsweise bekannt sind, im voraus zu bestimmen, welche Sternbedeckungen sichtbar werden, hat man nach den im Jahrbuch gegebenen Elementen folgendes zu beachten:

φ'

t	0°	8°	16°	24°	32°	40°	48°	56°	64°	72°	t
0^h 0^m	0^m	0^m	0^m	0^m	0^m	0^m	0^m	0^m	0^m	0^m	0^h 0^m
20	17	17	16	15	13	11	9	7	5	3	20
40	34	33	32	29	26	22	18	14	10	7	40
1 0	50	49	47	43	38	32	26	21	15	10	1 0
20	65	63	60	55	49	42	34	27	20	13	20
40	78	76	73	67	59	51	42	33	24	16	40
2 0	89	88	84	77	68	59	49	38	28	19	2 0
20	98	97	93	85	76	66	55	43	32	21	20
40	106	105	100	93	83	72	60	48	36	24	40
3 0	112	110	106	98	89	77	65	52	39	26	3 0
20	116	115	110	102	93	81	68	55	41	28	20
40	119	117	113	105	96	84	71	57	43	29	40
4 0	120	119	114	107	97	86	73	59	45	31	4 0
20	120	118	114	107	98	87	74	61	46	32	20
40	119	117	113	107	98	87	75	61	47	33	40
5 0	117	115	112	106	97	87	75	62	48	33	5 0
20	114	113	109	103	95	86	74	62	48	33	20
40	110	109	106	101	93	84	73	61	47	33	40
6 0	106	105	102	97	90	82	71	60	47	33	6 0
20	102	101	98	93	87	79	69	58	46	32	20
40		96	93	89	83	76	67	56	44	32	40
7 0			88	84	79	72	64	54	43	31	7 0
20			83	80	75	68	61	51	41	30	20
40				75	70	64	57	49	39	28	40
8 0					65	60	53	46	37	27	8 0
20						55	49	42	34	25	20
40							45	39	32	23	40
9 0							41	36	29	21	9 0
20								32	26	19	20
40								28	23	17	40
10 0								24	20	15	10 0
20									17	12	20
40									13	10	40
11 0									10	7	11 0
20									7	5	20
40										3	40
12 0										0	12 0

Nach den Angaben der Mondephemeride kennt man die Zeiten des Meridiandurchganges des Mondes (M), seine Deklination (δ) und die Deklination der Sonne. Nachdem man dann $(T + d)$ gebildet, wird man mit Hülfe einer Tafel der halben Tagbögen (wie sie in den Handbüchern der Nautik für alle Breiten sich berechnet finden) meist sogleich entscheiden können:

1) Ob Eintritt und Austritt nach Sonnenuntergang und Mondaufgang oder vor Sonnenaufgang und Monduntergang stattfinden. Auf die Vergröfserung des Tagbogens durch die Bewegung des Mondes und auf dessen Parallaxe ist vorläufig hierbei keine Rücksicht geboten, da deren Wirkungen in ihren mittleren Werten mittelst der Tafel Seite [20] durch τ berücksichtigt werden.

Aus vorstehender Tafel, in welcher τ das Zeichen des Stundenwinkels hat, erhält man sogleich mit φ' und $T + d - M$ einen Näherungswert für τ und hiermit den genäherteren Stundenwinkel $t = T + d - M + \tau$ und $q_0 = q + \tau q'$. Einen genäherten Wert von v erhält man durch Berechnung von

$$\sin(\varphi' - D) + \cos\varphi' \sin D (1 - \cos t)\ ^{*)}.$$

2) Ist nun $q_0 - v < k\ (k = 0.27)$, so findet in der Regel eine Bedeckung statt, im entgegengesetzten Falle nicht. Da aber τ zuerst nur annäherungsweise bekannt ist, so mufs, wenn $q_0 - v$ dem Werte von k nur nahe kommt, eine ausführlichere Berechnung angestellt werden.

In vielen Fällen dieser Art genügen indes schon einige weitere Betrachtungen zur Entscheidung, ob der aus der Tafel entnommene Wert von τ dem wahren Werte von τ sehr nahe kommt, gröfser oder kleiner ist. Man wird nämlich leicht entscheiden können, ob $(q' - v')$ sehr klein, positiv oder negativ wird, das Zeichen von $(q_0 - v)$ ist in den erwähnten zweifelhaften Fällen sehr bestimmt zu erkennen. Der Wert von u hängt für eine bestimmte Breite des Ortes nur von $\sin t$ ab und kann nie gröfser als $\cos\varphi'$ werden. — Hiernach gilt folgende Regel:

3) Sind $(q_0 - v)$ und $(q' - v')$ gleichnamig (beide positiv oder beide negativ), so mufs $p_0 - u = \tau p' - u$ negativ, sind jene ungleichnamig, so mufs $\tau p' - u$ positiv, ist $(q' - v')$ sehr klein (also das Vorzeichen noch unbestimmt), so mufs $\tau p'$ nahe gleich u werden, wonach man den Tafelwert von τ sogleich um ein oder ein paar Zehntel der Stunde im richtigen Sinne verbessern kann.

Seite 419 enthält die Vorausberechnung der Sternbedeckungen für Berlin.

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*) Um für einen Ort eine allgemeine, für diesen Zweck genügende Tafel der v zu bilden, hat man höchstens 5 Werte von $\sin(\varphi' - D)$ und 2 Werte von $\cos\varphi' \sin D$ auf 2 oder 3 Stellen zu berechnen.

14) Jupiterstrabanten.

Auf die Sternbedeckungen folgen Seite 420—425 die Erscheinungen der vier älteren Jupiterstrabanten, und zwar für sämtliche Trabanten zunächst die Angaben, aus denen man ihren Ort, wie sie vom Mittelpunkte der Erde aus gesehen zu einer beliebigen Zeit in Bezug auf den Mittelpunkt der Jupiterscheibe erscheinen, herleiten kann; sodann die Zeitangaben für die Verfinsterungen der Trabanten in dem Schattenkegel des Jupiter, welche von ihrem Stande gegen die Sonne abhängen. Bei den Verfinsterungen ist für die beiden inneren Trabanten die Zeit des Ein- oder Austritts, für die beiden äufseren Trabanten die Mitte der Verfinsterung und ihre halbe Dauer angegeben, alles in mittlerer Berliner Zeit und so, wie man die Erscheinung unmittelbar beobachten kann.

Für den geozentrischen Ort ist die Zeit der jedesmaligen scheinbaren oberen Konjunktion des Trabanten mit der Erde, oder die Zeit, wann Jupiter sich in einer auf die Ebene der Trabantenbahn senkrecht gelegten Ebene zwischen der Erde und dem Trabanten befindet, angesetzt. Für jeden Trabanten sind in den Jahrbüchern bis zum Jahrgang 1871 Hülfstafeln gegeben, welche für die mittlere synodische Umlaufszeit die Abscissen und Ordinaten des Ortes des Trabanten in seiner als kreisförmig angenommenen Bahn ergeben. Die Achse der Abscissen liegt senkrecht auf der Konjunktionsebene, beide Koordinaten natürlich in der Ebene der Trabantenbahn und ihr Anfangspunkt im Mittelpunkte der Jupiterscheibe. Die Einheit, in welcher die Koordinaten ausgedrückt sind, ist der Halbmesser des Jupiter. Die kreisförmige Bahn wird sich der Erde als eine Ellipse darstellen, deren kleine Achse in der Konjunktionsebene liegt, so dafs die Abscissen ungeändert bleiben, die Ordinaten aber in dem Verhältnis der halben kleinen zur halben grofsen Achse vermindert werden müssen. Dieses Verhältnis, und zwar $\frac{b}{a}$, ist neben den Zeiten der oberen Konjunktion angesetzt. Wünscht man nun für eine Zeit T, welche zwischen zwei auf einander folgende Zeiten t und t' der oberen Konjunktion fällt, den Ort des Trabanten zu haben, so geht man mit dem Argument

$$T - t$$

in die Hülfstafeln ein, nimmt daraus die entsprechenden Werte von x und y', und hat damit in Halbmessern des Jupiter den Stand des Trabanten in Bezug auf den Mittelpunkt des Jupiter gegeben durch

$$x \text{ und } y = y' \frac{b}{a},$$

wobei man die Zeichen von x, y' und $\frac{b}{a}$ zu berücksichtigen hat. Das Zeichen der letzten Gröfse deutet an, welche Fläche der Trabantenbahn

man sieht, ob die obere (nördliche, dem Nordpole der Ekliptik zugewandte bei positivem $\frac{b}{a}$), oder die untere (südliche).

Die Zeichen von x und y sind so gewählt, dafs für Berlin zur Zeit der Kulmination der Trabant für den Anblick im Fernrohre bei positivem x rechts, bei negativem x links vom Jupiter erscheint; bei positivem y ist er nördlich und beim negativen y südlich von einer Linie, welche mit den Streifen parallel durch das Zentrum des Jupiter gezogen werden kann.

Man könnte hier mit Leichtigkeit noch eine kleine Korrektion anbringen, wenn die Zwischenzeiten zweier auf einander folgenden oberen Konjunktionen beträchtlich von der mittleren synodischen Umlaufszeit verschieden wären. Wäre die letztere T', so würde man mit dem Argument

$$(T-t)\frac{T'}{t'-t}$$

eingehen müssen. Ebenso findet man die Vorübergänge der Trabanten vor der Jupiterscheibe durch die Zeiten der unteren Konjunktion, das Mittel aus den oberen, und die Ein- und Austritte der Trabanten in die Jupiterscheibe durch die Zeiten, zu denen

$$\sqrt{x^2+y^2} = 1,$$

wobei man von der elliptischen Gestalt des Jupiter absieht. Indessen sind diese letzteren Momente nur als beiläufige Näherungen zu betrachten, da für diese feineren und genaueren Bestimmungen die Tafeln sich nicht einfach genug einrichten liefsen, und aus gleichem Grunde wird die ersterwähnte Verbesserung wegen des Unterschiedes zwischen der wahren und mittleren synodischen Umlaufszeit unnötig sein.

Statt auf die in den früheren Jahrbüchern gegebenen Elongationstafeln zurückzugreifen, kann man auch leicht die Koordinaten der Trabanten aus den folgenden Formeln berechnen:

$$\left.\begin{aligned} x &= (0.7559)\sin[203^\circ.40 \,.\, t] \\ y' &= (0.7559)\cos[203^\circ.40 \,.\, t] \end{aligned}\right\} \text{Trabant I.}$$

$$\left.\begin{aligned} x &= (0.9576)\sin[101^\circ.29 \,.\, t] \\ y' &= (0.9576)\cos[101^\circ.29 \,.\, t] \end{aligned}\right\} \text{Trabant II.}$$

$$\left.\begin{aligned} x &= (1.16017)\sin[50^\circ.235 \,.\, t] \\ y' &= (1.16017)\cos[50^\circ.235 \,.\, t] \end{aligned}\right\} \text{Trabant III.}$$

$$\left.\begin{aligned} x &= (1.40552)\sin[21^\circ.488 \,.\, t] \\ y' &= (1.40552)\cos[21^\circ.488 \,.\, t] \end{aligned}\right\} \text{Trabant IV.}$$

wo t die seit der letzt vorangehenden oberen Konjunktion verflossene Zeit bezeichnet, ausgedrückt in Tagen, und wo die eingeklammerten Zahlen

Logarithmen bedeuten. Die zu Grunde gelegten Werte der mittleren Entfernungen vom Jupiterszentrum (in Halbmessern der Jupiterscheibe) und die synodischen Umlaufszeiten sind beziehungsweise:

Trabant I.	5.70	$1^d\ 18^h\ 28^m.6$
» II.	9.07	3 13 17 .9
» III.	14.46	7 3 59 .6
» IV.	25.44	16 18 5 .1.

Die Angaben für die Jupiterstrabanten sind nach den Tafeln von Damoiseau und deren Fortsetzung von Pottier berechnet.

Über die Verbesserungen, deren die Damoiseauschen Tafeln und die danach berechneten Verfinsterungen der Trabanten bedürftig sind, ist in dem Jahrbuche für 1880 näheres an dieser Stelle mitgeteilt worden.

15) Saturnsring.

Auf den Seiten 426 und 427 stehen die Angaben für die scheinbare Gröfse des Saturn und für die Lage und Gröfse des Saturnsringes, deren Bedeutung folgende ist:

α Grofse Achse des Saturn.

β Scheinbare kleine Achse des Saturn.

p_α Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Grofse Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Breitenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise; östlich positiv, westlich negativ.

	1912	April 11	Aug. 17	Dez. 23
$\mathcal{N}$	Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an	126° 54.1	126° 54.9	126° 55.8
J	Neigung der Ringebene gegen den Erdäquator	6 52.5	6 52.4	6 52.3
ω	Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene	42 31.2	42 30.6	42 30.0

Es liegen folgende Bestimmungen nach Struve zu Grunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial 17″.47
Polar 15 .65

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\, 57'.0 \quad \text{und} \quad i_1 = 28^\circ\, 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35.$$

Will man statt der Struveschen Werte für die Durchmesser des Saturn diejenigen Werte, welche Bessel in Band 12 der *Astron. Nachr.* abgeleitet hat, verwenden, nämlich:

den Äquatorialdurchmesser = 17″.053
den Polardurchmesser = 15 .381
in der Entfernung, deren Logarithmus = 0.9796480,

so braucht man die Gröfsen α und β der Ephemeride nur mit den Zahlen

0.9761 bezüglich 0.9828

zu multiplizieren.

16) Saturnstrabanten.

Die Seiten 428 bis 454 enthalten die Angaben über die Saturnstrabanten. Alle Berechnungen für dieselben sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. XI, abgeleiteten und in folgendem kurz angeführten Elementen durchgeführt. Einzelne Verbesserungen zu den Elementen hat Herr Prof. H. Struve handschriftlich mitgeteilt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $\mu = \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Mimas
(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 127^\circ\ 19'.0$
$n = 381^\circ.9945$
$\delta l = -44^\circ.243 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad - 0^\circ.75 \sin 3\,(116^\circ.46 + 5^\circ.075\, t)$
$l_1 = E_0 + n t_a + \delta l$
$\Theta = 54^\circ.7 - 365^\circ.3\, t$
$\gamma = 1^\circ\ 36'.5$
$\Pi_1 = 107^\circ.2 + 365^\circ.3\, t$
$e = 0.0190$
$a = 26''.814$

Enceladus
(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 199^\circ\ 19'.8$
$n = 262^\circ.73199$
$\delta l = + 11'.24 \sin(143^\circ + 92^\circ.4\, t)$
$\quad + 20'.0 \sin(75^\circ + 29^\circ.3\, t)$
$l_1 = E_0 + n t_a + \delta l$
$\Theta = 328^\circ - 152^\circ.7\, t$
$\gamma = 1'.4$
$\Pi_1 = 308^\circ.38 + 123^\circ.43\, t$
$e = 0.0046$
$a = 34''.401$

Tethys
(II, Seite 195).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 284^\circ\ 31'.0$
$n = 190^\circ.69795$
$\delta l = + 118'.90 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad + 2'.02 \sin 3\,(116^\circ.46 + 5^\circ.075\, t)$
$l_1 = E_0 + n t_a + \delta l$
$\Theta = 110^\circ.55 - 72^\circ.5\, t$
$\gamma = 1^\circ\ 4'.36$
$e = 0.0000$
$a = 42''.586$

Dione
(II, Seite 183).

Epoche: 1889 April 0.0 mittl. Gr. Zt.

$E_0 = 253^\circ\ 51'.4$
$n = 131^\circ.534955$
$\delta l = - 1'.21 \sin(143^\circ + 92^\circ.4\, t)$
$\quad - 2'.13 \sin(75^\circ + 29^\circ.3\, t)$
$l_1 = E_0 + n t_a + \delta l$
$\Theta = 276^\circ - 31^\circ.0\, t$
$\gamma = 4'.0$
$\Pi_1 = 165^\circ + 31^\circ.0\, t$
$e = 0.0020$
$a = 54''.543$

Rhea
(II, Seite 176).

Epoche: 1889 April 0.0 mittl. Greenw. Zeit.

$E_0 = 358^\circ\ 23'.8$
$n = 79^\circ.690087$
$E - E_0 = + 4'.95 \sin(347^\circ.3 - 10^\circ.1\, t)$
$l = E_0 + n t_a + (E - E_0)$
$(\Omega - \Omega_1) \sin i_1 = 19'.77 \sin(347^\circ.3 - 10^\circ.1\, t) - 0'.38$
$\quad + 1'.00 \sin(48^\circ.5 - 0^\circ.50\, t)$
$i - i_1 = 19'.77 \cos(347^\circ.3 - 10^\circ.1\, t) - 2'.79 + 1'.00 \cos(48^\circ.5 - 0^\circ.50\, t)$
$\Pi = 305^\circ + 10^\circ.1\, t$
$e = 0.0009$
$a = 76''.170$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

Titan

(II, Seite 172).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$E_\circ = 260^\circ\ 25'.1$

$n = 22^\circ.577009$

$E - E_\circ = + 4'.05 \sin(47^\circ.8 - 0^\circ.51\ t)$

$l = E_\circ + nt_a + (E - E_\circ)$

$\Omega = 167^\circ\ 51'.2 + 35'.84 \sin(47^\circ.8 - 0^\circ.506\ t) + 0'.837\ t$

$i = 27^\circ\ 28'.4 + 16'.88 \cos(47^\circ.8 - 0^\circ.506\ t)$

$\Pi = 276^\circ\ 15' + 31'.7\ t + 22'.0 (\sin 2\,g - \sin 2\,g_\circ)$

$e = 0.02886 + 0.000186 (\cos 2\,g_\circ - \cos 2\,g)$

$g = \Pi - \Omega - 4^\circ.5$

$g_\circ = g$ für $t = 0$

$a = 176''.578$

Hyperion

(II, Seite 290).

Epoche: 1890 Jan. 0.0 mittl. Greenw. Zeit.

$E_\circ = 304^\circ.53$

$n = 16^\circ.919983$

$\delta l = 9^\circ.16 \sin(200^\circ.5 + 0^\circ.56206\ t_a)$

$l = E_\circ + n \,.\, t_a + \delta l$

Äquinoktium: 1890.0. Epoche: 1890.0 + t.

$\Omega = 167^\circ\ 49'.7 + 42'.4 \sin(47^\circ.8 - 0^\circ.50\ t) + 78'.1 \sin(121^\circ.7 - 2^\circ.0\ t)$

$i = 27^\circ\ 20'.8 + 19'.6 \cos(47^\circ.8 - 0^\circ.50\ t) + 36'.2 \cos(121^\circ.7 - 2^\circ.0\ t)$

Epoche und Äquinoktium: 1888.890 + t.

$\Pi = 276^\circ.50 - 18^\circ.663\ t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191\ t)$
$\qquad - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382\ t)$

$e = 0.1043 + 0.0230 \cos(-0^\circ.84 + 19^\circ.191\ t) + \delta e$

$e\delta e = -0.00044 \cos(200^\circ.5 + 0^\circ.56206\ t_a)$

$a = 213''.92 + \delta a$

$\delta a = -0.00354\ a \cos(200^\circ.5 + 0^\circ.56206\ t_a)$

Japetus

(I, Seite 87; II, Seite 139).

Epoche: 1885 Sept. 1.0 mittl. Greenw. Zeit.

$E_\circ = 75^\circ\ 26'.4$

$n = 4^\circ.537997$

$l = E_\circ + n \,.\, t_a$

$\Omega = 142^\circ\ 12'.4 - 1'.48\ t$

$i = 18^\circ\ 28'.3 - 0'.54\ t$

$\Pi = 354^\circ\ 30' + 7'.9\ t$

$e = 0.02836 + 0.000015\ t$

$a = 514''.59$

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\varrho) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die fünf inneren Trabanten auf den Seiten 428 bis 438 die Hülfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkeligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der grofsen Achse des Ringes verläuft, positiv wenn östlich, negativ wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Deklinationskreise den Winkel P einschliefst, aus den Gleichungen:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

Die Gröfsen U und B sind Seite 427 zu entnehmen. $(\varrho) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, ϱ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\rho)}{\rho} \frac{1}{1+\zeta} \frac{r}{a} \sin B\,[\cos(u-U) + \sin\gamma \operatorname{cotg} B \sin(u-\vartheta)];$$

hierin bezeichnet ϑ die Länge des aufsteigenden Knotens der Trabantenbahn

auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator; ϑ ergibt sich aus:

$$\vartheta = \Theta - \Omega_1 + \omega$$

für Tethys ist $\frac{r}{a} = 1$.

Will man aus x und y noch Rektascensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 439 bis 447 finden sich für die drei äufseren Trabanten Titan, Hyperion und Japetus, aufser den Hülfsgröfsen U, B und P, die Rektascensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet. Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind wahre bis März 26, vom Oktober 4 an mittlere.

Zum Schlufs enthalten die Seiten 448—454 die Zeitangaben für die östlichen und westlichen Elongationen der Saturnstrabanten und für die oberen und unteren Konjunktionen von Japetus mit Saturn.

Die Zeitangaben für die Elongationen und Konjunktionen sind bereits für Aberration korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

17) Konstellationen.

In der Übersicht der Konstellationen des Jahres 1912 (Seite 455 und 456) sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne, Mond und die Sterne 1. und 2. Gröfse, sowie die Angaben der Epochen, zu welchen sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeckungen der Planeten und der helleren Fixsterne (bis 2. Gröfse) durch den Mond auf der Erde überhaupt sind hier ebenfalls nochmals mit aufgeführt. — Die Konjunktionen der Planeten mit dem Mond und untereinander sind als Konjunktionen in AR. zu verstehen. Letztere sind nur insoweit berücksichtigt als die Differenz der Deklinationen beider Planeten den Betrag von 3° nicht übersteigt. Die Epochen der gröfsten Helligkeit der Venus sind nach derjenigen Formel für die Lichtstärke, welche G. Müller in der *Publikation des Astrophys. Observatoriums zu Potsdam,* Bd. VIII, Seite 197 ff. gegeben hat, berechnet.

Als Abkürzungen sind in dieser Übersicht folgende gebraucht:

♈ Widder.
♉ Stier.
♊ Zwillinge.
♋ Krebs.
♌ Löwe.
♍ Jungfrau.
♎ Wage.
♏ Skorpion.
♐ Schütze.
♑ Steinbock.
♒ Wassermann.
♓ Fische.

☉ Sonne.
☾ Mond.
☿ Merkur.
♀ Venus.
♁ Erde.
♂ Mars.
♃ Jupiter.
♄ Saturn.
♅ Uranus.
♆ Neptun.

☌ Konjunktion.
□ Quadratur.
☍ Opposition.

☊ Aufsteigender } Knoten.
☋ Niedersteigender } Knoten.

18) Hülfstafeln.

Es folgt eine Reihe von häufig gebrauchten Hülfstafeln.

1) Die Tafel zur Berechnung der physischen Mondlibration (Seite 457). Die zur Berechnung der physischen Mondlibration dienenden Ausdrücke sind auf Seite 457 vollständig gegeben. Sie beruhen auf der Annahme $f = 0.75$, worüber F. Hayn (Selenographische Koordinaten III, Seite 49) einzusehen ist.

2) Die Tafel zur Berechnung der optischen Mondlibration (Seite 458 und 459) reproduziert (mit $J = 1° 32' 6''$ berechnet) die bekannte Enckesche Tafel (Berl. Jahrb. 1843); sie gestattet in Verbindung mit den Angaben der Seite 88 die rasche Berechnung der optischen Libration in selenographischer Länge und Breite nach den Formeln, die auf Seite 459 vollständig aufgeführt sind. Hierbei scheint die Kenntnis der wahren Längen und Breiten des Mondes notwendig zu sein, welche im Jahrbuch vermifst werden; indessen werden die Längen und Breiten zu diesem Zweck mit merklichem Vorteil aus der mit Hinzufügung der Parallaxe berechneten AR. und Dekl. abgeleitet, wozu man sich der gewöhnlichen Umwandlungsformeln oder, wenn nicht gröfsere Genauigkeit erfordert wird, der Enckeschen Hülfstafel in der Veröffentlichung Nr. 14 des Recheninstituts bedienen kann.

3) Eine Tafel mit Angabe der Bruchteile des tropischen Jahres, die den nebenstehenden mittleren Daten (0^h Mittl. Zeit Berlin) entsprechen. (Seite 460 und 461.)

4) Eine Tafel für die Ermittelung eines Datums in der julianischen Periode. (Seite 462 und 463.)

5) Die Hülfstafeln zur Verwandlung von mittlerer Zeit und Sternzeit (Seite 464 und 465).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (Seite 466 und 467).

7) Eine Tafel mit Angabe der Hülfsgröfsen zur Berechnung der Präzession von den hauptsächlichsten Sternkatalog-Epochen bis 1912.0 (Seite 468).

8) Eine Tafel mit Angabe der Hülfsgröfsen zur Übertragung mittlerer Polsternörter von verschiedenen Äquinoktien auf 1912.0 (Seite 469).

19) Koordinaten der Sternwarten.

Die Seiten 470 bis 477 enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben worden, wo sie sich einigermafsen sicher ermitteln liefsen; zumeist sind sie dem Verzeichnis von Prof. Auwers im *Geographischen Jahrbuch* entnommen worden; bei der Berechnung von log ϱ sind sie berücksichtigt.

Die geozentrischen Koordinaten sind nach den Besselschen Erddimensionen berechnet.

Die Kolumne »Korrektion der Sternzeit« enthält für jeden Ort die Differenz: Sternzeit im mittleren Mittag minus Sternzeit im mittleren Berliner Mittag.

Das Verzeichnis hat im vorliegenden Jahrgang Änderungen bezw. Zusätze für die Lage folgender Sternwarten erfahren:

Allegheny (Neue Stw.)	nach	Mitteilung von Direktor Schlesinger.
Athen	»	*Comptes Rendus* Bd. 148, S. 1577.
Brüssel (Uccle)	»	*Annuaire astronomique* 1910.
Gotha (Neue Stw.)	»	Mitteilung von Prof. Albrecht, Potsdam.
Helwan	»	dem *Nautical Almanac* 1912.
Jena (Universität) / Jena (Winkler)	»	Mitteilung von Prof. Albrecht, Potsdam.
Johannesburg	»	dem *Nautical Almanac* 1912.
Kiel (Neuer Mer.-Kreis)	»	Mitteilung von Prof. Harzer.
Ottawa	»	dem *Nautical Almanac* 1912.
Seeberg	»	Mitteilung von Prof. Albrecht, Potsdam.
Wellington (Mt. Cook Obs.)	»	dem *Nautical Almanac* 1912.

20) Bahnelemente der kleinen Planeten.

Die Seiten (2)—(36) enthalten die Bahnelemente der kleinen Planeten nach den neuesten der Redaktion bekannt gewordenen Bestimmungen. Die unmittelbar den Namen folgenden Kolumnen geben auch das Datum der Opposition im Jahre 1910 und die Gröfse zur Zeit derselben.

Ferner sind gegeben zwei Kolumnen m_0 und g, welche zur Berechnung der Gröfse des Planeten dienen. Es bedeutet m_0 die mittlere Gröfse, d. h. diejenige Gröfse, welche der Planet in seiner mittleren Entfernung a von der Sonne und der gleichzeitigen Entfernung $a-1$ von der Erde haben würde; ferner ist g eine Gröfse, welche aus m_0 nach der Formel

$$g = m_0 - 5 \cdot \log a\,(a-1)$$

berechnet ist, und welche dazu dient, für einen beliebigen geozentrischen Ort des Planeten seine Gröfsenklasse M zu berechnen. Ist Δ die Entfernung des Planeten von der Erde, r seine Entfernung von der Sonne, so ist seine Gröfse

$$M = g + 5\,(\log \Delta + \log r).$$

21) Oppositionsdaten der kleinen Planeten.

Von den 538 im Jahre 1910 und zu Anfang des Jahres 1911 stattfindenden Oppositionen der kleinen Planeten (1)—(674) ist Seite (37)—(50) eine übersichtliche Zusammenstellung, nach der Oppositionszeit geordnet, gegeben. In diesem Verzeichnisse ist neben dem Namen des Planeten der Tag der Opposition in AR., die Gröfse, der genäherte geozentrische Ort, die tägliche Bewegung an jenem Tage, der Logarithmus der Entfernung des Planeten von der Erde und aufserdem das Jahr, in welchem der Planet zum letzten Male beobachtet wurde, angegeben.

Für 36 Planeten, welche in dem Oppositionsverzeichnis durch ein Sternchen (*) bezeichnet sind, enthalten die Seiten (51)—(86) ausführliche Ephemeriden; für etwa 60 weitere Planeten, deren Beobachtung im Jahre 1910 erwünscht erscheint, sind genäherte Oppositionsephemeriden in den Veröffentlichungen des Recheninstitutes Nr. 38 und 39 gegeben.

22) Ausführliche Oppositionsephemeriden.

Diese Ephemeriden, Seite (51)—(86), die neben der Erleichterung der Beobachtungen einer künftigen Theorie der entsprechenden Planeten zur Grundlage dienen sollen, sind zum gröfsten Teil im Recheninstitut berechnet, zum Teil von den unterzeichneten Herren der Redaktion gütigst zur Verfügung gestellt worden. Für die Lichtzeit ist hierbei angenommen: $498^s.4$.

23) Nachweisungen über die kleinen Planeten.

Das die Nachweisungen über die kleinen Planeten enthaltende Verzeichnis, Seite (87)–(107), gibt in zwei Abschnitten eine Übersicht der Stellen in den verbreitetsten Publikationsmitteln, wo A. Beobachtungen,

B. Berechnungen in bezug auf die kleinen Planeten sich vorfinden. Das Nähere ist aus dem Verzeichnisse selbst unmittelbar zu ersehen. — Die Übersicht umfaſst Band 179, S. 33 bis Band 182, S. 252 einschl. der *Astronomischen Nachrichten* (bezeichnet mit A. N.), das *Bulletin Astronomique* Band 25, S. 369 bis Band 26, S. 368 (bezeichnet mit B. A.), und die *Monthly Notices* Band 69 (bezeichnet mit M. N.). Die angenommenen Grenzen dieser Übersicht entsprechen den Zeitgrenzen der Publikation 1908 Okt. 1 bis 1909 Okt. 1.

Zur Statistik der kleinen Planeten im Jahre 1909.

Seit dem Erscheinen des letzten Jahrbuches sind bis Ende Dezember 1909 folgende 15 neue Planeten entdeckt, bezw. als solche erkannt worden, welche zu der Gruppe zwischen Erde und Jupiter gehören:

660	*CC*	entdeckt	1908	Jan. 8	von		
661	*CL*	»	»	Febr. 22	»	Metcalf, Taunton, Mass.	
662	*CW*	»	»	März 30	»		
663	*DG*	»	»	Juni 24	»	Kopff	
664	*DH*	»	»	Juni 24	»		
665	*DK*	»	»	Juli 22	»	Lorenz	
666	*DM*	»	»	Juli 23	»		Königstuhl
667	*DN*	»	»	Juli 23	»		
668	*DO*	»	»	Juli 27	»	Kopff	
669	*DQ*	»	»	Aug. 20	»		
670	*DR*	»	»	Aug. 20	»		
671	*DV*	»	»	Sept. 21	»	Palisa, Wien	
672	*DY*	»	»	Sept. 21	»	Kopff	
673	*EA*	»	»	Sept. 21	»		Königstuhl.
674	Rachel	»	»	Okt. 28	»	Lorenz	

Auſser den genannten sind bis Ende 1909 noch etwa 50 bisher anscheinend unbekannte Planeten gefunden, für welche zum Teil Bahnberechnungen wegen unzureichenden Beobachtungsmaterials nicht ausführbar, zum Teil die Rechnungen noch nicht abgeschlossen sind.

Unter den 674 jetzt bekannten kleinen Planeten sind im gegenwärtigen Zeitpunkte (Ende März 1910), soviel der Redaktion bekannt geworden ist,

453 Planeten, welche in mindestens 4 Oppositionen beobachtet sind, nämlich die Planeten (1) bis (391) mit Ausnahme von (99), (132), (155), (157), (188), (193), (220), (272), (280), (281), (285), (290), (293), (296), (299), (307), (309), (310), (315), (316), (319), (320), (323), (327), (328), (330), (353), (355), (357), (368) und (370) und aufserdem:

(393) Lampetia
(394) Arduina
(397) Vienna
(399) Persephone
(401) Ottilia
(402) Chloë
(403) Cyane
(404) Arsinoë
(405) Thia
(407) Arachne
(409) Aspasia
(410) Chloris
(411) Xanthe
(412) Elisabetha
(414) Liriope
(415) Palatia
(416) Vaticana
(417) Suevia
(418) Alemannia
(419) Aurelia
(420) Bertholda
(421) Zähringia
(423) Diotima
(424) Gratia
(425) Cornelia
(426) Hippo
(429) Lotis
(431) Nephele
(432) Pythia
(433) Eros
(434) Hungaria
(435) Ella
(437) Rhodia
(439) Ohio
(441) Bathilde
(442) Eichsfeldia
(443) Photographica
(444) Gyptis
(446) Aeternitas
(447) Valentine
(449) Hamburga
(451) Patientia
(453) Tea
(454) Mathesis
(455) Bruchsalia
(456) Abnoba
(458) Hercynia
(460) Scania
(462) Eriphyla
(470) Kilia
(471) Papagena
(472) Roma
(475) Ocllo
(477) Italia
(478) Tergeste
(481) Emita
(482) Petrina
(483) Seppina
(484) Pittsburghia
(485) Genua
(487) Venetia
*(488) Kreusa
(490) Veritas
(491) Carina
(498) Tokio
(500) Selinur
(504) Cora
(505) Cava
(507) Laodica
(508) Princetonia
(509) Iolanda
(510) Mabella
(511) Davida
(513) Centesima
(514) Armida
(516) Amherstia
(521) Brixia
(526) Jena
*(528) Rezia
(530) Turandot
(532) Herculina
(535) Montague
(536) Merapi
(537) Pauly
(541) Deborah
(542) Susanna
(543) Charlotte
(544) Jetta
(550) Senta
(554) Peraga
(578)
(589) Croatina
(617) Patroclus

56 Planeten, welche in 3 Oppositionen beobachtet sind, nämlich:

(157) Dejanira
(188) Menippe
(272) Antonia
(281) Lucretia
(299) Thora
(307) Nike
(328) Gudrun
(357) Ninina
(370) Modestia
(398) Admete
(406) Erna
(422) Berolina
(427) Galene
(438) Zeuxo
(440) Theodora
(445) Edna
(450) Brigitta
(469) Argentina
(476) Hedwig
(480) Hansa
(494) Virtus
(501) Urhixidur
(502) Sigune
(503) Evelyn
(506) Marion
(520) Franziska
(523) Ada
(524) Fidelio
(527) Euryanthe
(534) Nassovia
(538) Friederike
(539) Pamina
(546) Herodias
(549) Jessonda
(551) Ortrud
(552) Sigelinde
(556) Phyllis
(558) Carmen
(559) Nanon
(562) Salome
(563) Suleika
(566) Stereoskopia
(569) Misa
(570)
(579)
(582)
(583) Klotilde
(592)
(595)
(596)
(599)
(600)
(615)
(624) Hektor
(639)
(642)

64 Planeten, welche nur in 2 Oppositionen beobachtet sind, nämlich:

(280) Philia . . . 17
(296) Phaëtusa . . 14
(319) Leona . . . 16
(320) Katharina . 15
(327) Columbia . 14
(355) Gabriella . 13
(395) Delia . . . 12
(408) Fama . . . 12
(436) Patricia . . 10
(465) Alekto . . . 8
(466) Tisiphone . 8
(468) Lina 8
(479) Caprera . . 7
(492) Gismonda . 6
(495) Eulalia . . . 6
(517) Edith . . . 6
(533) Sara 5
(540) Rosamunde 4
(545) Messalina . 5
(547) Praxedis . . 5
(548) Kressida . . 4
(555) Norma . . . 5
(557) Violetta . . 4
(568) Cheruskia . 4
(573) 4
(575) 4
(577) 4
(581) Tauntonia . 4
(585) 3
(587) 3
(588) Achilles . . 4
(593) 4
(598) 3
(601) 3
(603) 3
(607) 3
(609) 3
(611) 3
(616) 3
(618) 3
(619) 3
(620) 3
(622) 3
(623) 3
(628) 3
(631) 3
(633) 3
(635) 3
(636) 3
(638) 3
(643) 3
(645) 2
(648) 2
(649) 2
(651) 2
(652) Jubilatrix . 2
(654) Zelinda . . 2
(655) 2
(659) 2
(660) 2
(662) Newtonia . 2
(670) 2
(673) 2
(674) Rachel . . 2

101 Planeten, welche bisher nur in 1 Opposition beobachtet sind, nämlich:

(99) Dike . . . . —
(132) Aethra . . . —
(155) Scylla . . . —
(193) Ambrosia . —
(220) Stephania . —
(285) Regina . . 17
(290) Bruna . . . 15
(293) Brasilia . . 16
(309) Fraternitas . 15
(310) Margarita . 15
(315) Constantia . 13
(316) Goberta . . 16
(323) Brucia . . . 13
(330) Adalberta . 12
(353) Ruperto-C. . 14
(368) Haidea . . 14
(392) Wilhelmina 13
(396) Aeolia . . . 12
(400) Ducrosa . . 13
(413) Edburga . . 11
(428) Monachia . 9
(430) Hybris . . . 10
(448) Natalie . . 9
(452) Hamiltonia . 9
(457) Alleghenia . 8
(459) Signe . . . 7
(461) Saskia . . 8
(463) Lola 7
(464) Megaira . . 8
(467) Laura . . . 8
(473) Nolli 8
(474) Prudentia . 7
(486) Cremona . . 6
(489) Comacina . 6
(493) Griseldis . . 6
(496) Gryphia . . 5
(497) Jva 6
(499) Venusia . . 7
(512) Taurinensis 6
(515) Athalia . . 6
(518) Halawe . . 5
(519) Sylvania . . 5
*(522) Helga . . . 6
(525) Adelaide . . 5
*(529) Preziosa . . 5
(531) Zerlina . . . 5
(553) Kundry . . 4
(560) Delila . . . 4
(561) Ingwelde . . 4
(564) Dudu . . . 4
(565) Marbachia . 4
(567) Eleutheria . 4
(571) 4
(572) 4
(574) 3
(576) Emanuela . 4
(580) 4
(584) 3
(586) 4
(590) 4
(591) 4
(594) 3
(597) 3

(602) Marianna . 4
(604) 4
(605) 3
(606) 3
(608) 3
(610) 3
(612) 3
(613) 3
(614) 3
(621) 3
(625) 3
(626) 3
(627) 3
(629) 3
(630) 3
(632) 3
(634) 3
(637) 3
(640) 3
(641) 2
(644) 2
(646) 2
(647) 2
(650) 2
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(656) 2
(657) 2
(658) 2
(661) 2
(663) 2
(664) 2
(665) 2
(666) 2
(667) 2
(668) 2
(669) 2
(671) 2
(672) 2

In den vorstehenden Angaben bezeichnen die hinter den Planetennamen befindlichen Ziffern die Anzahl der bisher, mit Einschlufs der Entdeckungserscheinung, stattgefundenen Oppositionen. Von den mit einem * bezeichneten Planeten sind nachträglich noch ältere vor der Entdeckungszeit liegende hier nicht berücksichtigte Beobachtungen aufgefunden.

Buchdruckerei A. W. Schade, Berlin N. 39., Schulzendorfer Str. 26.